

NAT Tues

129861

Access DB# 129881

# SEARCH REQUEST FORM

129891

#22

Scientific and Technical Information Center

Requester's Full Name: Shefali Patel Examiner #: 79747 Date: 8/13/04  
Art Unit: 2621 Phone Number 306-4182 Serial Number: 09/585678  
Mail Box and Bldg/Room Location: CPK-4A07 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Capturing & Encoding unique user attributes in Media Signals  
Inventors (please provide full names): Eric Ellingson

Earliest Priority Filing Date: 6/1/2000

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please Search for claims 1 and 6.

The invention

- Media signal Capture Device (i.e., camera) captures a user attribute (i.e., retinal scan, fingerprint, iris...).

- encoding (i.e., coding, embedding, encrypting, watermarking) the user attribute into a media signal (i.e., image, sequence of images, audio signal...)

Digimarc

thank you,  
Shefali Patel

8/13/04 12:15 pm

## STAFF USE ONLY

Searcher: Pamela Reynolds  
Searcher Phone #: 306-0285  
Searcher Location: PK 2 3103  
Date Searcher Picked Up: 8-16-04 4:11 PM  
Date Completed: 8-17-04 12:50  
Searcher Prep & Review Time: SD  
Clerical Prep Time: \_\_\_\_\_  
Online Time: 100

## Type of Search

NA Sequence (#) \_\_\_\_\_  
AA Sequence (#) \_\_\_\_\_  
Structure (#) \_\_\_\_\_  
Bibliographic ☒  
Litigation \_\_\_\_\_  
Fulltext ☒  
Patent Family \_\_\_\_\_  
Other \_\_\_\_\_

## Vendors and cost where applicable

STN \_\_\_\_\_  
Dialog ☒  
Questel/Orbit \_\_\_\_\_  
Dr.Link \_\_\_\_\_  
Lexis/Nexis \_\_\_\_\_  
Sequence Systems \_\_\_\_\_  
WWW/Internet ☒  
Other (specify) 1866 DMC 16N JDS



# **STIC Search Report**

## **EIC 2600**

**STIC Database Tracking Number: 129861**

**TO: Shefali Patel**  
**Location: CPK1 4A07**  
**Art Unit: 2621**  
**Tuesday, August 17, 2004**

**Case Serial Number: 09585678**

**From: Pamela Reynolds**  
**Location: EIC 2600**  
**PK2-3C03**  
**Phone: 306-0255**

**Pamela.Reynolds@uspto.gov**

### **Search Notes**

Dear Shefali Patel

Please find attached the search results for 09585678. I used the search strategy I emailed to you to edit, which you did. I searched the standard Dialog files, IBM TDBs, IEEE, DTIC, and the internet.

If you would like a re-focus please let me know.

Thank you.

File 344:Chinese Patents Abs Aug 1985-2004/May  
(c) 2004 European Patent Office  
File 347:JAPIO Nov 1976-2004/Apr(Updated 040802)  
(c) 2004 JPO & JAPIO  
File 348:EUROPEAN PATENTS 1978-2004/Aug W02  
(c) 2004 European Patent Office  
File 349:PCT FULLTEXT 1979-2002/UB=20040812,UT=20040805  
(c) 2004 WIPO/Univentio  
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200452  
(c) 2004 Thomson Derwent

Set	Items	Description
S1	26	AU=(ELLINGSON, E? OR ELLINGSON E?)
S2	0	S1 AND USER()ATTRIBUTE?
S3	3	S1 AND MEDIA()SIGNALS

3/5,K/1 (Item 1 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2004 WIPO/Univentio. All rts. reserv.

01033948 \*\*Image available\*\*

DIGITAL WATERMARKING AND FINGERPRINTING INCLUDING SYNCHRONIZATION,  
LAYERING, VERSION CONTROL, AND COMPRESSED EMBEDDING  
TATOUAGE ET DACTYLOSCOPIE NUMERISES COMPRENANT LA SYNCHRONISATION, LA  
STRUCTURE EN COUCHES, LE CONTROLE DE LA VERSION, ET L'INTEGRATION  
COMPRIMEE

Patent Applicant/Assignee:

DIGIMARC CORPORATION, 19801 SW 72nd Avenue, Suite 100, Tualatin, OR 97062  
, US, US (Residence), US (Nationality), (For all designated states  
except: US)

Patent Applicant/Inventor:

ALATTAR Adnan M, 14336 SW Chesterfield Lane, Tigard, OR 97224, US, US  
(Residence), US (Nationality), (Designated only for: US)

LEVY Kenneth L, 110 N.E. Cedar Street, Stevenson, WA 98648, US, US  
(Residence), US (Nationality), (Designated only for: US)

STAGER Reed R, 3955 SW Mt. Adams, Portland, OR 97201, US, US (Residence),  
US (Nationality), (Designated only for: US)

RHOADS Geoffrey B, 2961 SW Turner Road, West Linn, OR 97068, US, US  
(Residence), US (Nationality), (Designated only for: US)

ELLINGSON Eric E, 1327 NW Yamhill Street, McMinnville, OR 97128, US, US  
(Residence), US (Nationality), (Designated only for: US)

Legal Representative:

STEWART Steven W (agent), Digimarc Corporation, 19801 SW 72nd Avenue,  
Suite 100, Tualatin, OR 97062, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200362960 A2-A3 20030731 (WO 0362960)

Application: WO 2003US1975 20030122 (PCT/WO US2003001975)

Priority Application: US 2002351565 20020122; US 2002404038 20020815; US  
2002428485 20021121

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR

LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SK

SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT SE SI  
SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06K-009/00

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 14078

English Abstract

This disclosure describes several video watermarking and fingerprinting  
(Fig. 2) enhancements. These enhancements include synchronizing watermark  
detectors with one-dimensional calibration signals, layering digital  
watermarks, watermarks for version control, compressed domain  
watermarking, watermarking of video object layers, key channel watermark  
embedding for video, robust fingerprinting of video and watermarking of  
scalable video.

French Abstract

La presente invention concerne plusieurs perfectionnements au tatouage et a la dactyloscopie video. Ces perfectionnements comprennent la synchronisation des detecteurs de tatouage avec des signaux de calibrage unidimensionnel, la structure en couches des tatouages numerises, des tatouages pour le controle de la version, le tatouage de domaines comprime, le tatouage de couches d'objets video, la l'integration du tatouage de voies-cles pour video, le tatouage robuste de video et le tatouage de video a la carte.

Legal Status (Type, Date, Text)

Publication 20030731 A2 Without international search report and to be republished upon receipt of that report.

Search Rpt 20040115 Late publication of international search report

Republication 20040115 A3 With international search report.

Patent Applicant/Inventor:

... Designated only for: US)

**ELLINGSON Eric E** ...

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... detected through an automated detection process. Most commonly, digital 1 5 watermarking is applied to **media signals** such as images, audio signals, and video signals. However, it may also be applied to... with the literature in this field. Particular techniques for embedding and detecting imperceptible watermarks in **media signals** are detailed in the assignee's co-pending application serial number 09/503,881 and...

Claim

... for performing the method of claim 1 1.

27 A method of version control of **media signals** using digital watermarking, the method comprising: embedding a first watermark layer in a media signal...

**3/5,K/2 (Item 1 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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015874133 \*\*Image available\*\*

WPI Acc No: 2004-031964/200403

Related WPI Acc No: 1995-200530; 1996-518986; 1997-310156; 1998-009129;

1998-110064; 1998-286225; 1999-204782; 1999-444465; 2000-013122;

2000-194736; 2000-195398; 2000-365779; 2000-490584; 2000-647035;

2001-022904; 2001-335855; 2001-357503; 2001-374044; 2001-397673;

2001-425330; 2001-570080; 2001-580828; 2001-581298; 2001-581665;

2001-595705; 2001-607222; 2002-011177; 2002-041658; 2002-062159;

2002-082807; 2002-154357; 2002-163652; 2002-163681; 2002-179003;

2002-188040; 2002-205513; 2002-224088; 2002-226224; 2002-235400;

2002-236852; 2002-238406; 2002-238913; 2002-239839; 2002-254659;

2002-256143; 2002-268672; 2002-315095; 2002-361599; 2002-361694;

2002-370756; 2002-382444; 2002-391512; 2002-392708; 2002-394013;

2002-403568; 2002-405083; 2002-413035; 2002-435593; 2002-470507;

2002-498079; 2002-498923; 2002-507125; 2002-508021; 2002-528580;  
 2002-556177; 2002-598690; 2002-598923; 2002-617280; 2002-636862;  
 2002-642228; 2002-654787; 2002-672857; 2002-673567; 2002-691185;  
 2002-697772; 2003-045908; 2003-057552; 2003-074123; 2003-090293;  
 2003-091652; 2003-137905; 2003-174573; 2003-199024; 2003-219596;  
 2003-238411; 2003-266622; 2003-268467; 2003-275465; 2003-327510;  
 2003-331365; 2003-353776; 2003-362315; 2003-391983; 2003-392393;  
 2003-401297; 2003-418353; 2003-418436; 2003-419661; 2003-419904;  
 2003-465734; 2003-492022; 2003-557490; 2003-587433; 2003-597620;  
 2003-615418; 2003-615425; 2003-655604; 2003-655616; 2003-655715;  
 2003-656012; 2003-658647; 2003-659691; 2003-687554; 2003-707329;  
 2003-730410; 2003-767701; 2003-777048; 2003-800216; 2003-800961;  
 2003-802603; 2003-829683; 2003-897231; 2004-059015; 2004-059948;  
 2004-070353; 2004-098221; 2004-119479; 2004-155399; 2004-179244;  
 2004-179245; 2004-303569; 2004-386915

XRPX Acc No: N04-025227

**Digital watermark detection method e.g. in video stream, involves calibrating one-dimensional signal corresponding to video stream to compensate geometric distortion of watermark in video stream**

Patent Assignee: ALATTAR A M (ALAT-I); ELLINGSON E E (ELLI-I); LEVY K L (LEVY-I); RHOADS G B (RHOA-I); STAGER R R (STAG-I)

Inventor: ALATTAR A M; **ELLINGSON E E**; LEVY K L; RHOADS G B; STAGER R R

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030185417	A1	20031002	US 2002351565	P	20020122	200403 B
			US 2002404038	P	20020815	
			US 2002428485	P	20021121	
			US 2003350276	A	20030122	

Priority Applications (No Type Date): US 2003350276 A 20030122; US 2002351565 P 20020122; US 2002404038 P 20020815; US 2002428485 P 20021121

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20030185417	A1		23	G06K-009/00	Provisional application US 2002351565

Provisional application US 2002404038

Provisional application US 2002428485

Abstract (Basic): US 20030185417 A1

NOVELTY - The frame in input video stream is transformed into one-dimensional video signal and the one-dimensional signal is calibrated using one-dimensional calibration signal, to compensate geometric distortion of the watermark in the video stream.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) recorded medium for storing digital watermark detection program;
- (2) method for digitally watermarking video signal;
- (3) recorded medium for storing video signal watermarking program;
- (4) method of version control of video signal;
- (5) method of detecting content flags embedded in video signal;
- (6) recorded medium for storing content flags detection program;
- (7) method for video watermarking;
- (8) method of embedding auxiliary data in compressed video stream;
- (9) recorded medium for storing compressed auxiliary data embedding program;
- (10) method of extracting auxiliary video stream;
- (11) recorded medium for storing auxiliary data extraction program;
- (12) method of video fingerprinting;

(13) recorded medium for storing video fingerprinting program;  
(14) method of embedding digital watermark in video stream; and  
(15) recorded medium for storing digital watermark embedding program.

USE - For detecting digital watermark embedded in **media signals** such as images, audio and video streams.

ADVANTAGE - Enables to detect and synchronize the different watermark in video sequence which is converted to analog domain using calibration signal.

DESCRIPTION OF DRAWING(S) - The figure shows the flowchart explaining the watermark layering method.

pp; 23 DwgNo 2/7

Title Terms: DIGITAL; WATERMARK; DETECT; METHOD; VIDEO; STREAM; CALIBRATE; ONE; DIMENSION; SIGNAL; CORRESPOND; VIDEO; STREAM; COMPENSATE; GEOMETRY; DISTORT; WATERMARK; VIDEO; STREAM

Derwent Class: T01; W04

International Patent Class (Main): G06K-009/00

File Segment: EPI

...Inventor: **ELLINGSON E E**

Abstract (Basic):

... For detecting digital watermark embedded in **media signals** such as images, audio and video streams...

**3/5,K/3 (Item 2 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

015525283 \*\*Image available\*\*

WPI Acc No: 2003-587433/200355

Related WPI Acc No: 1995-200530; 1996-518986; 1997-310156; 1998-009129;

1998-110064; 1998-286225; 1999-204782; 1999-444465; 2000-013122;  
2000-194736; 2000-195398; 2000-365779; 2000-464989; 2000-490584;  
2000-647035; 2001-022904; 2001-335855; 2001-357503; 2001-374044;  
2001-397673; 2001-425330; 2001-570080; 2001-580828; 2001-581298;  
2001-581665; 2001-595705; 2001-607222; 2002-011177; 2002-041658;  
2002-062159; 2002-082807; 2002-154357; 2002-163652; 2002-163681;  
2002-179003; 2002-188040; 2002-205513; 2002-224088; 2002-226224;  
2002-235400; 2002-236852; 2002-238406; 2002-238913; 2002-239839;  
2002-254659; 2002-256143; 2002-268672; 2002-315095; 2002-361599;  
2002-361694; 2002-370756; 2002-382444; 2002-391512; 2002-392708;  
2002-393501; 2002-394013; 2002-403568; 2002-405083; 2002-413035;  
2002-416925; 2002-435593; 2002-470507; 2002-479804; 2002-498079;  
2002-498923; 2002-507125; 2002-508021; 2002-528580; 2002-556177;  
2002-598690; 2002-598923; 2002-617280; 2002-636862; 2002-642228;  
2002-654787; 2002-672857; 2002-673567; 2002-691185; 2002-697772;  
2003-045908; 2003-057552; 2003-074123; 2003-090293; 2003-091652;  
2003-137905; 2003-140183; 2003-174573; 2003-199024; 2003-219596;  
2003-238411; 2003-266622; 2003-268467; 2003-275465; 2003-327510;  
2003-331365; 2003-353776; 2003-362315; 2003-391983; 2003-392393;  
2003-401297; 2003-418353; 2003-418436; 2003-419661; 2003-419904;  
2003-465734; 2003-492022; 2003-557490; 2003-597620; 2003-615418;  
2003-615425; 2003-655604; 2003-655616; 2003-655715; 2003-656012;  
2003-658647; 2003-659691; 2003-687554; 2003-707329; 2003-730410;  
2003-767701; 2003-777048; 2003-800216; 2003-800961; 2003-802603;  
2003-829683; 2003-897231; 2004-031964; 2004-041644; 2004-059015;  
2004-059948; 2004-070353; 2004-098221; 2004-119479; 2004-155399;  
2004-179244; 2004-179245; 2004-303569; 2004-386915

XRPX Acc No: N03-467792

**Method of detecting digital watermark in compressed data stream by performing calibration of one dimensional signal with one dimensional calibration signal to compensate for geometric distortion of video signal**

Patent Assignee: DIGIMARC CORP (DIGI-N); CELIK M U (CELI-I)

Inventor: ALATTAR A M; ELLINGSON E E ; LEVY K L; RHOADS G B; STAGER R R; CELIK M U

Number of Countries: 100 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200362960	A2	20030731	WO 2003US1975	A	20030122	200355 B
US 20040034778	A1	20040219	US 2002404038	P	20020815	200415
			US 2002300921	A	20021119	
AU 2003210625	A1	20030902	AU 2003210625	A	20030122	200426

Priority Applications (No Type Date): US 2002428485 P 20021121; US 2002351565 P 20020122; US 2002404038 P 20020815; US 2002300921 A 20021119

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 200362960	A2	E	53	G06F-000/00	
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Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT SD SE SI SK SL SZ TR TZ UG ZM ZW

US 20040034778	A1		H04L-009/00	Provisional application US 2002404038
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AU 2003210625	A1		G06F-000/00	Based on patent WO 200362960
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Abstract (Basic): WO 200362960 A2

NOVELTY - The method involves transforming video data into one-dimensional video signal. A calibration of the signal is performed with a one dimensional calibration signal to compensate for geometric distortion of the video signal. The transforming includes combining rows within a video frame into a first one-dimensional signal and involves combining columns within a video frame into a second one-dimensional signal.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for:

- (a) a tangible medium on which are stored instructions for performing the claimed method
- (b) a method for detecting content flags embedded in host media signal
- (c) a method for video watermarking
- (d) a method of embedding auxiliary data in a compressed data stream
- (e) a method of extracting auxiliary data from a compressed data stream
- (f) a method for detecting auxiliary data in a compressed data stream

USE - In digital watermarking and fingerprinting for modifying physical or electronic media to embed a hidden machine-readable code into the media. The embedded code is imperceptible or nearly imperceptible to the user, yet may be detected through an automated detection process applied to **media signals** such as images, audio signals, and video signals. It may also be applied to other types of media objects, including documents (e.g., through line, word or character shifting), software, multi-dimensional graphics models, and surface textures of objects.

ADVANTAGE - Allows for several exact copies of video output source



with differing payloads.

DESCRIPTION OF DRAWING(S) - The drawing is a flow diagram illustrating a method for detecting one-dimensional calibration signal in a host signal and using them to compute geometric distortion.

pp; 53 DwgNo 1/7

Title Terms: METHOD; DETECT; DIGITAL; WATERMARK; COMPRESS; DATA; STREAM; PERFORMANCE; CALIBRATE; ONE; DIMENSION; SIGNAL; ONE; DIMENSION; CALIBRATE; SIGNAL; COMPENSATE; GEOMETRY; DISTORT; VIDEO; SIGNAL

Derwent Class: T01; W02; W04

International Patent Class (Main): G06F-000/00; H04L-009/00

File Segment: EPI

...Inventor: ELLINGSON E E

Abstract (Basic):

... imperceptible to the user, yet may be detected through an automated detection process applied to **media signals** such as images, audio signals, and video signals. It may also be applied to other...

?

File 2:INSPEC 1969-2004/Aug W2  
(c) 2004 Institution of Electrical Engineers  
File 6:NTIS 1964-2004/Aug W3  
(c) 2004 NTIS, Intl Cpyrght All Rights Res  
File 8:Ei Compendex(R) 1970-2004/Aug W2  
(c) 2004 Elsevier Eng. Info. Inc.  
File 34:SciSearch(R) Cited Ref Sci 1990-2004/Aug W2  
(c) 2004 Inst for Sci Info  
File 35:Dissertation Abs Online 1861-2004/May  
(c) 2004 ProQuest Info&Learning  
File 65:Inside Conferences 1993-2004/Aug W2  
(c) 2004 BLDSC all rts. reserv.  
File 94:JICST-EPlus 1985-2004/Jul W4  
(c)2004 Japan Science and Tech Corp(JST)  
File 95:TEME-Technology & Management 1989-2004/Jun W1  
(c) 2004 FIZ TECHNIK  
File 99:Wilson Appl. Sci & Tech Abs 1983-2004/Jul  
(c) 2004 The HW Wilson Co.  
File 144:Pascal 1973-2004/Aug W2  
(c) 2004 INIST/CNRS  
File 233:Internet & Personal Comp. Abs. 1981-2003/Sep  
(c) 2003 EBSCO Pub.  
File 239:Mathsci 1940-2004/Oct  
(c) 2004 American Mathematical Society  
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
(c) 1998 Inst for Sci Info  
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13  
(c) 2002 The Gale Group  
File 603:Newspaper Abstracts. 1984-1988  
(c)2001 ProQuest Info&Learning  
File 483:Newspaper Abs Daily 1986-2004/Aug 16  
(c) 2004 ProQuest Info&Learning  
File 248:PIRA 1975-2004/Aug W1  
(c) 2004 Pira International

Set	Items	Description
S1	388239	CAMERA? OR SCANNER??
S2	1887	(IRIS OR RETINA) (3N) (PRINT? ? OR MARK? ? OR DESIGN? ? OR G- EOMETRY OR PATTERN? ? OR SIGNATURE? ? OR CHARACTERISTIC? OR A- TTRIBUTE?)
S3	507	(IRIS OR RETINA OR EYE) ( ) SCAN?
S4	51824	FINGERPRINT? OR FINGER( ) PRINT?
S5	9469	WATERMARK OR WATER( ) MARK?
S6	429	STEGANOGRAPHIC?
S7	19835	BIOMETRIC? OR USER(3N) ATTRIBUTE?
S8	12885	(INSERT? OR EMBED? OR ATTACH? OR ENCOD???? OR CODES OR COD- ING OR CODE?? OR ENCRYPT? OR INSERT? OR MERG? OR JOIN? OR INT- EGRAT? OR ADD OR ADDED OR ADDING) AND (S2 OR S3 OR S4 OR S5 OR S6)
S9	375	(EYEPiece? OR EYE( ) PIECE?) AND CAMERA?
S10	3482833	VIDEO OR FRAMES OR MULTIMEDIA OR MULTI( ) MEDIA OR IMAGE?? OR AUDIO OR MEDIA
S11	217	AU=(ELLINGSON, E? OR ELLINGSON E?)
S12	6037	S8 AND S10
S13	0	S12 AND S9
S14	219	S12 AND S1
S15	6	S14 AND STREAM?
S16	6	RD S15 (unique items)
S17	472	(S2 OR S3) AND (INSERT? OR EMBED? OR ATTACH? OR ENCOD???? - OR CODES OR CODING OR CODE?? OR ENCRYPT? OR INSERT? OR MERG? - OR JOIN? OR INTEGRAT? OR ADD OR ADDED OR ADDING)

S18	566465	VIDEO OR MEDIA(3N)SIGNAL?? OR FRAMES OR (STREAM? OR MOV?) (-
		3N) DATA
S19	27	S17 AND S18
S20	27	S19 NOT S15
S21	23	RD S20 (unique items)
S22	0	S11 AND S2:S7
S23	0	S11 AND S18
S24	34	DIGIMARC AND S8
S25	3	S24 AND S18
S26	3	S25 NOT (S19 OR S15)
S27	3	RD S26 (unique items)

16/3,K/1 (Item 1 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2004 Institution of Electrical Engineers. All rts. reserv.

8000361 INSPEC Abstract Number: B2004-07-0100-123, C2004-07-0000-075  
Title: **Proceedings 2003 International Conference on Multimedia and Expo**  
(Cat. No.03TH8698)  
Part vol.1  
Publisher: IEEE, Piscataway, NJ, USA  
Publication Date: 2003 Country of Publication: USA 3  
vol.(li+868+852+636) pp.  
ISBN: 0 7803 7965 9 Material Identity Number: XX-2003-01563  
U.S. Copyright Clearance Center Code: 03/\$17.00  
Conference Title: 2003 IEEE International Conference on Multimedia and Expo  
Conference Sponsor: IEEE Signal Process. Soc., Comput. Soc., Circuits & Syst. Soc, Commun. Soc  
Conference Date: 6-9 July 2003 Conference Location: Baltimore, MD, USA  
Language: English  
Subfile: B C  
Copyright 2004, IEE

Title: **Proceedings 2003 International Conference on Multimedia and Expo**  
(Cat. No.03TH8698)

Abstract: The following topics are dealt with: networked **video** ; automatic indexing; multimodal interfaces; speech processing; **audio** processing; **image** processing; **multimedia** architectures; text recognition; graphics recognition; face recognition; song recognition; **multimedia** security; content protection; virtual reality; authentication; wireless **multimedia** techniques; content-based retrieval; speech **coding** ; gaming; **multimedia** learning; quality of service; **image** rendering; **video** rendering; layered transmission; scalable transmission; multiple description transmission; **image** compression; noise removal; watermarking; **fingerprinting** ; **video** processing; multi- **camera** surveillance systems; **multimedia** hardware; **multimedia** architecture; **multimedia** indexing; broadcast; signal processing theory; smart **camera** ; **multimedia** retrieval; network adaptive techniques; **multimedia** software; error concealment; loss recovery; computational **media** aesthetics; source **coding** ; channel **coding** ; **image** **coding** ; **image** enhancement; **video** analysis; **multimedia** **streaming** ; **image** classification; **image** detection; segmentation; **multimedia** semantics; **audio** -visual analysis; **multimedia** distribution; **multimedia** authoring; **multimedia** presentation; **multimedia** interaction; motion estimation; multimodal biometrics; multistream **audio** ; telepresence; **video** tracking; **image** tracking; human movement analysis; face analysis; **multimedia** standards; structuring; rate control; packet classification; **audio** signal processing; bioinformatics; **video** mining; human-machine interface; human-machine interaction; **multimedia** communication; speech recognition; and speech enhancement.

Descriptors: **audio** signal processing...

... **encoding** ; ...

... **image** processing...

... **multimedia** systems

Identifiers: networked **video** ; ...

... **audio** processing...

... image processing...

... multimedia architectures...

... multimedia security...

... wireless multimedia techniques...

... speech coding ; ...

... multimedia learning...

... image rendering...

... video rendering...

... image compression...

... fingerprinting ; ...

... video processing...

... multimedia hardware...

... multimedia architecture...

... multimedia indexing...

... smart camera ; ...

... multimedia retrieval...

... multimedia software...

... computational media aesthetics...

... source coding ; ...

... channel coding ; ...

... image coding ; ...

... image enhancement...

... video analysis...

... multimedia streaming ; ...

... image classification...

... image detection...

... multimedia semantics...

... audio -visual analysis...

... multimedia distribution...

... multimedia authoring...

... multimedia presentation...

... multimedia interaction...

...multistream audio ; ...

... video tracking...

... image tracking...

... multimedia standards...

... audio signal processing...

... video mining...

... multimedia communication

16/3,K/2 (Item 2 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2004 Institution of Electrical Engineers. All rts. reserv.

5509051 INSPEC Abstract Number: B9704-0100-031, C9704-1250-066  
Title: Machine Vision Applications, Architectures, and Systems  
Integration V  
Journal: Proceedings of the SPIE - The International Society for Optical  
Engineering vol.2908  
Publisher: SPIE-Int. Soc. Opt. Eng,  
Publication Date: 1996 Country of Publication: USA  
CODEN: PSISDG ISSN: 0277-786X  
Material Identity Number: C574-96310  
U.S. Copyright Clearance Center Code: 96/\$6.00  
Conference Title: Machine Vision Applications, Architectures, and Systems  
Integration V  
Conference Sponsor: SPIE  
Conference Date: 18-19 Nov. 1996 Conference Location: Boston, MA, USA  
Language: English  
Subfile: B C  
Copyright 1997, IEE

Title: Machine Vision Applications, Architectures, and Systems  
Integration V  
...Abstract: topics were dealt with: machine vision applications;  
developments in high-speed inspection using intelligent CCD cameras ;  
high-speed electron beam data verification system using high-performance  
neural network accelerator board; optical...

... applications; novel RAM-based neural networks for object recognition;  
automated matching technique for identification of fingerprints ;  
neural-network-based system for recognition of partially occluded shapes  
and patterns; using TDI camera with nonzero viewing angles for surface  
inspection; system for characterizing small fibers; vision-based coin...

...multiscale data analysis for leather defect detection; automatic machine  
vision for lace inspection; programmable CCD camera equipped with  
user-configurable video rate digital video processing for use in  
industrial inspection; surface segmentation of laser range images for  
automated facility mapping; new multiexpert architecture for  
high-performance object recognition; one-dimensional Fourier...

... coefficients for rotation invariant texture classification; automated

X-ray detection of contaminants in continuous food **streams** ; parallel algorithms for real-time tracking; adaptive object's motion parameters evaluation in the presence...

...time multitask operating system; improving the method of testing tensile strength of material by 3D **image** ; compact optical correlator for machine vision with optically addressed bacteriorhodopsin spatial light modulator; height data from gradient maps; high-performance **image** processing system for powder mixture analysis; system for high-speed **image** sequence acquisition; high-frame-rate display system for study of motion perception; Prolog-based prototyping software for machine vision; automated generation of finite-state machine lookup tables for binary morphology; **multimedia** extensions to prototyping software for machine vision.

...Identifiers: intelligent CCD **cameras** ; ...

...TDI **camera** ; ...

...programmable CCD **camera** ; ...

...laser range **images** ;

16/3,K/3 (Item 1 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)

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06192976 E.I. No: EIP02457190417

**Title: Real-time video watermarking technique**

Author: Lee, Han Ho; Chae, J.J.; Choi, J.U.

Corporate Source: MarkAny Research Institute 10F, Ssanglim-bldg, Chung-gu, Seoul 100-400, South Korea

Conference Title: Security and Watermarking of Multimedia Contents IV

Conference Location: San Jose, CA, United States Conference Date: 20020121-20020124

E.I. Conference No.: 60165

Source: Proceedings of SPIE - The International Society for Optical Engineering v 4675 2002. p 503-511

Publication Year: 2002

CODEN: PSISDG ISSN: 0277-786X

Language: English

**Title: Real-time video watermarking technique**

Abstract: Most previous **video** watermarking algorithms cannot be supported by real-time processing. Our algorithm proposed the specific **embedding** method in the spatial domain directly rather than the frequency domain. Also the algorithm supports the robustness from the **video** attacking skills. In the paper, for example, **watermark** is **inserted** immediately into the output frame of Digital **Video** (DV) camcorder. We select the Y component from the DV signal, and then the **watermark** information is **inserted** in all of the Y **frames**. The watermarked **video frames** put in the **video** MPEG **encoder**. We consider **embedding** information to the high quality **video streams**, such as a DVD, HDTV. Our experimental results show the high quality of the **video** even if compressed. Therefore, the robustness from compression is tested by MPEG-2 of 6Mbps...

...invisibility is proved by measurement of PSNR. The results also show the robustness from several **video** editing methods, such as a cut-and-splice and cut-**insert**-splice, and **video** conversions, letterboxing, pan & span, and wide screen of **media**. 9 Refs.

Descriptors: **Video** signal processing; Digital watermarking; Real time

systems; **Image** compression; **Video** cameras ; Algorithms

16/3,K/4 (Item 2 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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06118454 E.I. No: EIP02357065367

**Title: Real-time digital video watermarking**  
Author: Shan, Ambalanath; Salari, Ezzatollah  
Corporate Source: Dept. of Elec. Eng. and Comp. Sci. University of Toledo, Toledo, OH 43606, United States  
Conference Title: 2002 Digest of Technical Papers  
Conference Location: Atlanta, GA, United States Conference Date: 20020618-20020620  
E.I. Conference No.: 59498  
Source: Digest of Technical Papers - IEEE International Conference on Consumer Electronics 2002. p 12-13 (IEEE cat n 02ch37300)  
Publication Year: 2002  
CODEN: DTPEEL ISSN: 0747-668X  
Language: English

**Title: Real-time digital video watermarking**  
Abstract: In this article, we present method that uses digital video watermarking as a real-time authenticator in a video stream . The proposed scheme uses the Hadamard transform as the spreading transform for the key, hence very fast coding and decoding of the the imperceptible watermark is realized. This in turn, can serve to verify the source of a digital flame...

Descriptors: Digital watermarking; **Image** coding ; Decoding; **Video** cameras ; Optical correlation; **Image** compression; Cosine transforms; Real time systems

Identifiers: **Video** frames

16/3,K/5 (Item 1 from file: 34)  
DIALOG(R)File 34: SciSearch(R) Cited Ref Sci  
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07379104 Genuine Article#: 157XY No. References: 13

**Title: Optical image encryption based on XOR operations**  
Author(s): Han JW (REPRINT) ; Park CS; Ryu DH; Kim ES  
Corporate Source: ELECT & TELECOMMUN RES INST, 161 KAJUNG DONG/TAEJON 305350//SOUTH KOREA/ (REPRINT); HANSEI UNIV, DEPT INFORMAT & COMMUN SCI/KUNPO SI 435742/KYUNGGI DO/SOUTH KOREA/; KWANGWOON UNIV, DEPT ELECT ENGN/SEOUL 139701//SOUTH KOREA/  
Journal: OPTICAL ENGINEERING, 1999, V38, N1 (JAN), P47-54  
ISSN: 0091-3286 Publication date: 19990100  
Publisher: SPIE - INTERNATIONAL SOCIETY FOR OPTICAL ENGINEERING, POB 10, BELLINGHAM, WA 98227-0010  
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

**Title: Optical image encryption based on XOR operations**  
Abstract: We propose a new optical image encryption technique based on exclusive-OR (XOR) operations for a security system that controls the entrance of authorized persons. The basic idea is that we convert a gray-level image to eight bit planes for image encryption . We use the XOR operation that is commonly used such as the well-known encryption method. The input image is encrypted by performing optical XOR operations with the key bit stream that are generated by



digital **encryption** algorithms. The gray level input **image** is converted to eight bit planes, which are represented on a liquid crystal device (LCD...

...XOR operations between the key data and the bit planes are performed by the polarization **encoding** method. The results of XOR operations, which are detected by a CCD **camera**, are converted to an **encrypted** gray-level **image** and the **image** is used as an input to the binary phase extraction **joint** transform correlator (BPEJTC) for comparison with reference **images**. We present some simulation results that verify the proposed method. (C) 1999 Society of Photo...

...Identifiers-- **JOINT** TRANSFORM CORRELATOR; **FINGERPRINT** IDENTIFICATION

16/3,K/6 (Item 1 from file: 144)  
DIALOG(R)File 144:Pascal  
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14754211 PASCAL No.: 00-0432002  
**Secure digital photograph handling with watermarking technique in insurance claim process**  
**Security and watermarking of multimedia contents II : San Jose CA, 24-26 January 2000**  
TOYOKAWA K; MORIMOTO N; TONEGAWA S; KAMIJO K; KOIDE A  
PING WAH WONG, ed; DELP Edward J, ed  
College of International Relations, Nihon University, Mishima, Shizuoka 411-8555, Japan; IBM Research, Tokyo Research Laboratory, Yamato, Kanagawa 242-8502, Japan; IBM Yamato Software Laboratory, Yamato, Kanagawa 242-8502, Japan  
International Society for Optical Engineering, Bellingham WA, United States  
Security and watermarking of multimedia contents. Conference, 2 (San Jose CA USA) 2000-01-24  
Journal: SPIE proceedings series, 2000, 3971 438-445  
Language: English

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**Security and watermarking of multimedia contents II : San Jose CA, 24-26 January 2000**  
... of Device authentication by secure protocol capable to protect photographs from substitution, Watermarking technique to **embed** digital signatures on JPEG data and detect altered portions, and Robust watermarking technique to **embed image** identification number which persists throughout decompression/compression operations. The device authentication is used in transmissions of photograph **images** from a digital **camera** (DC) to a compact flash memory (CF), and from a CF to a personal computer (PC). Thus **images** are authenticated at the one-way pass of DC, CF and PC. In registering **images** on PC, an **image** identification number and a digital signature are **embedded** into a JPEG data **stream** by a watermarking technique called DataHiding SUP < SUP T SUP M >. We could imbed 96 bits of data into a 640x480 pixel **image** without degrading visual **image** quality and persistency of **embedding** data. After the watermarking process, a photograph can be identified by decoding an **embedded** number and detected any altered portion by an **embedded** signature. Using the new method, we have developed a prototype secure claim process, and verified...

English Descriptors: Safety; Memory; Digital **image**; **Image** transmission; **Image** quality; Insurance; Pixel; Personal computer; Flash; Authentication; Compression; Substitution; Alteration; Detection; Filing;

**Watermark** ; Digital photography; Digital signature

French Descriptors: Securite; Memoire; **Image** numerique; Transmission  
**image** ; Qualite **image** ; Assurance; Pixel; Ordinateur personnel; Flash;  
Authentification; Compression; Substitution; Alteration; Detection;  
Classement; JPEG; **Camera** numerique; Donnee cachee; Filigrane;  
Photographie numerique; Signature numerique

Spanish Descriptors: Seguridad; Memoria; **Imagen** numerica; Transmision  
**imagen** ; Calidad **imagen** ; Seguro; Pixel; Computadora personal; Flash;  
Autenticacion; Compresion; Substitucion; Alteracion; Deteccion;  
Clasificacion

?

21/3,K/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

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7463398 INSPEC Abstract Number: B2003-01-7230G-034, C2003-01-5530-002

**Title: Development of the next-generation document reader: Eye Scanner**

Author(s): Amano, T.; Abe, T.; Iyoda, T.; Nishikawa, O.; Sato, Y.

Author Affiliation: Dept. of Electr. & Comput. Eng., Nagoya Inst. of Technol., Japan

Journal: Proceedings of the SPIE - The International Society for Optical Engineering Conference Title: Proc. SPIE - Int. Soc. Opt. Eng. (USA) vol.4669 p.250-8

Publisher: SPIE-Int. Soc. Opt. Eng,

Publication Date: 2002 Country of Publication: USA

CODEN: PSISDG ISSN: 0277-786X

SICI: 0277-786X(2002)4669L:250:DNGB;1-I

Material Identity Number: C574-2002-231

U.S. Copyright Clearance Center Code: 0277-786X/02/\$15.00

Conference Title: Sensors and Camera Systems for Scientific, Industrial, and Digital Photography Applications III

Conference Sponsor: IS&T; SPIE

Conference Date: 21-23 Jan. 2002 Conference Location: San Jose, CA, USA

Language: English

Subfile: B C

Copyright 2002, IEE

**Title: Development of the next-generation document reader: Eye Scanner**

...Abstract: Besides, it cannot copy without distortion. So, we propose a next generation's document reader " **Eye Scanner** ". The **Eye Scanner** is composed of the range finder, digital camera and pan-tilt stage system. Due to these devices the **Eye Scanner** is possible shape information and high-density texture image acquisition. Therefore the **Eye Scanner** is able to read the document by the free viewpoint and able to generate the image which is not distorted by the geometric conversion. Moreover, the **Eye Scanner** has the ability for high-resolution image generation by the digital camera, which placed on...

...by the free form transformation with shape information and explain about the technique of image **merging** . At the experiment, we show some result of distortion correction and show the result of image **merging** .

...Identifiers: **Eye Scanner** ; ...

...image **merging** ; ...

... **video** camera

21/3,K/2 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

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6477176

**Title: Eye-Tech. Technical savvy behind bars [iris recognition]**

Author(s): Sullivan, L.

Journal: Risk Management vol.47, no.1 p.37-8

Publisher: Risk Manag. Soc,

Publication Date: Jan. 2000 Country of Publication: USA

CODEN: RMGTDN ISSN: 0035-5593

SICI: 0035-5593(200001)47:1L:37:TTSB;1-7

Material Identity Number: B796-2000-001  
Language: English  
Subfile: D  
Copyright 2000, IEE

...Abstract: The technology may have wide-ranging applications for risk management. The process begins with a **video** -based camera that locates the eye and iris of an individual. The **iris** color **pattern** , a complex human bar **code** of tangled connective tissue, is imaged and **encoded** into an IrisCode record. For a person to be identified, he or she must go...

...Identifiers: **video** -based camera...

... **iris** color **pattern** ;

21/3,K/3 (Item 3 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2004 Institution of Electrical Engineers. All rts. reserv.

5569947 INSPEC Abstract Number: B9706-6140C-310, C9706-5260B-165

**Title: Iris recognition technology**

Author(s): Williams, G.O.

Author Affiliation: IriScan Inc., Mt. Laurel. NJ, USA

Journal: IEEE Aerospace and Electronics Systems Magazine vol.12, no.4  
p.23-9

Publisher: IEEE,

Publication Date: April 1997 Country of Publication: USA

CODEN: IESMEA ISSN: 0885-8985

SICI: 0885-8985(199704)12:4L.23:IRT;1-#

Material Identity Number: J604-97004

U.S. Copyright Clearance Center Code: 0885-8985/97/\$10.00

Language: English

Subfile: B C

Copyright 1997, IEE

...Abstract: identity of individuals without physical contact or human intervention. A new technology, using the unique **patterns** of the human **iris** , shows promise of overcoming previous shortcomings and providing positive identification of an individual without contact or invasion, at extremely high confidence levels. The **video** -based system locates the eye and iris; evaluates the degree of occlusion by eyelid and...

...of the iris) for processing. The iris is zoned, and the features therein measured and **encoded** into a 256-byte (2048 bit) IrisCode for enrollment or identification. The presented biometric is...

...or measurable variables. The IriScan process typically uses about 200 of these to create a **code** which can be compared to an entire database in milliseconds, producing a positive identification with...

...Descriptors: Hamming **codes** ; ...

... **video** coding ;

...Identifiers: **video** -based system...

... **code** ;

21/3,K/4 (Item 1 from file: 6)  
DIALOG(R)File 6:NTIS  
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1815306 NTIS Accession Number: N94-30455/7

**Dual Use of Image Based Tracking Techniques: Laser Eye Surgery and Low Vision Prosthesis**

Juday, R. D.

National Aeronautics and Space Administration, Houston, TX. Lyndon B. Johnson Space Center.

Corp. Source Codes: 019042004; ND185000

Feb 94 7p

Languages: English

Journal Announcement: GRAI9418; STAR3208

In NASA, Washington, Technology 2003: The Fourth National Technology Transfer Conference and Exposition, Volume 1 p 131-137.

NTIS Prices: (Order as N94-30440/9, PC A20/MF A04)

... for Earth applications in real-time medical image processing. The first is warping of a **video** image, developed to evoke shift invariance to scale and rotation in correlation pattern recognition. The...

... compensation for certain field defects in low vision humans. The second is using the optical **joint** Fourier transform to track the translation of unmodeled scenes. Developed as an image fixation tool...

Descriptors: Eye (Anatomy); \*Fourier transformation; \*Image processing; \*Laser applications; \*Surgery; \*Vision; Technology utilization; Ophthalmology; **Pattern** recognition; **Retina**; Tracking (Position); Visual perception

21/3,K/5 (Item 2 from file: 6)

DIALOG(R)File 6:NTIS

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1423003 NTIS Accession Number: AD-A203 051/8

**Real-Time Display of Time Dependent Data Using a Head-Mounted Display**

(Master's thesis)

Lorimor, G. K.

Air Force Inst. of Tech., Wright-Patterson AFB, OH. School of Engineering.

Corp. Source Codes: 000805002; 012225

Report No.: AFIT/GE/ENG/88D-22

Dec 88 64p

Languages: English Document Type: Thesis

Journal Announcement: GRAI8910

Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: PC A04/MF A01

The purpose of this investigation was the development of a software system to **integrate** time-dependent data with a three-dimensional virtual environment. Red Flag data tapes were used...

... a head-mounted display was used. The software development was done on a Silicon Graphics **Iris** 3130 workstation. The **design** of the software system allows the user to be free of the keyboard for most...

...this type in the training arena. The update rate of this system is about 10 **frames** per second. There appears to be several open questions concerning the benefits of such a...

21/3,K/6 (Item 1 from file: 8)  
DIALOG(R)File 8:Ei Compendex(R)  
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05741395 E.I. No: EIP00125454802

**Title: Motorola's experience with biometrics: unlocking opportunities for imaging**

Author: Weber, Rob  
Corporate Source: Motorola Imaging and Entertainment Solutions  
Source: Advanced Imaging v 15 n 10 Oct 2000. p 22, 24, 52  
Publication Year: 2000  
CODEN: ADIMEZ ISSN: 1042-0711  
Language: English

...Abstract: driving growth in the advanced imaging arena as imaging sensor and advanced processor design is **integrated** into security devices that make thieves' jobs difficult or even stop them in their tracks. Biometric-based security devices include a variety of technologies such as **iris scans**, **retina scans**, thermal face recognition, voice print, signature recognition, **video** face recognition, finger scanning, palm scanning and hand geometry. Most of these solutions contain key...

Identifiers: Biometric imaging system; Biometric fingerprint identification; **Encryption** processor

21/3,K/7 (Item 1 from file: 34)  
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
(c) 2004 Inst for Sci Info. All rts. reserv.

11646739 Genuine Article#: 677GD No. References: 14

**Title: Re-evaluation of differential phase contrast (DPC) in a scanning laser microscope using a split detector as an alternative to differential interference contrast (DIC) optics**

Author(s): Amos WB (REPRINT) ; Reichelt S; Cattermole DM; Laufer J  
Corporate Source: MRC,Mol Biol Lab,Hills Rd/Cambridge CB2 2QH//England/ (REPRINT); MRC,Mol Biol Lab,Cambridge CB2 2QH//England/; Univ Coll London,Dept Med Phys & Bioengn,London WC1E 6JA//England/  
Journal: JOURNAL OF MICROSCOPY-OXFORD, 2003, V210, 2 (MAY), P166-175  
ISSN: 0022-2720 Publication date: 20030500  
Publisher: BLACKWELL PUBLISHING LTD, 9600 GARSINGTON RD, OXFORD OX4 2DG, OXON, ENGLAND  
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

Abstract: In this paper, differential phase imaging (DPC) with transmitted light is implemented by **adding** a suitable detection system to a standard commercially available scanning confocal microscope. DPC, a long...

21/3,K/8 (Item 2 from file: 34)  
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
(c) 2004 Inst for Sci Info. All rts. reserv.

10365364 Genuine Article#: 519PH No. References: 24

**Title: A 100 x 100 pixel silicon retina for gradient extraction with steering filter capabilities and temporal output coding**

Author(s): Barbaro M (REPRINT) ; Burgi PY; Mortara A; Nussbaum P; Heitger F  
Corporate Source: Univ Cagliari,Dept Elect & Elect Engr,Piazza Armi/I-09123 Cagliari//Italy/ (REPRINT); Univ Cagliari,Dept Elect & Elect

Engn,I-09123 Cagliari//Italy//; Swiss Ctr Elect & Microtechnol,Adv  
Microelect Div,CH-2007 Neuchatel//Switzerland/  
Journal: IEEE JOURNAL OF SOLID-STATE CIRCUITS, 2002, V37, N2 (FEB), P  
160-172  
ISSN: 0018-9200 Publication date: 20020200  
Publisher: IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 345 E 47TH ST,  
NEW YORK, NY 10017-2394 USA  
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

...Title: **x 100 pixel silicon retina for gradient extraction with steering  
filter capabilities** and temporal output coding  
Abstract: A 100 x 100 pixel analog very large scale **integration** retina is  
proposed to extract the magnitude and direction of spatial gradients  
contained in sensed...  
...concept of steerable filters to compute the gradients. An output rate of  
up to 1000 **frames** per second is achieved in a standard CMOS 0.5  $\mu$ m  
process. The retina provides address-event **coded** output on two  
asynchronous buses, one dedicated to the the gradient's direction and  
another...

21/3,K/9 (Item 1 from file: 35)  
DIALOG(R)File 35:Dissertation Abs Online  
(c) 2004 ProQuest Info&Learning. All rts. reserv.

01658937 ORDER NO: AAD98-42172  
**RECONFIGURABLE TESH CONNECTED PARALLEL COMPUTERS (TORI CONNECTED MESHES)**  
Author: MAZIARZ, BOGDAN MARK  
Degree: PH.D.  
Year: 1998  
Corporate Source/Institution: UNIVERSITY OF SOUTH FLORIDA (0206)  
Source: VOLUME 59/07-B OF DISSERTATION ABSTRACTS INTERNATIONAL.  
PAGE 3618. 237 PAGES

...of the network, that are critical to microchip implementation on  
the one hand and efficient **embedding** of applications on the other, are  
studied in depth. It is shown that the wiring...

...per second. The 2-D wavelet transform, on the other hand, finds  
application in digital **video** and image processing such as a fingerprint  
or **retina scan** identification. Both of these algorithms are implemented  
in such a way so as to completely...

21/3,K/10 (Item 1 from file: 94)  
DIALOG(R)File 94:JICST-EPlus  
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05799501 JICST ACCESSION NUMBER: 04A0361060 FILE SEGMENT: JICST-E  
**Real-time Individual Identification by the Iris Pattern Using a  
Rotation Spreading Neural Network**  
MURAKAMI MAKI (1); TSUGE YUKIKO (1); TAKANO HIRONOBU (1); NAKAMURA KIYOMI  
(1); KUROKAWA MASAHIRO (2)  
(1) Toyama Prefectural Univ., Graduate School of Engineering, JPN; (2)  
Kurokawaseisakusho  
Denshi Joho Tsushin Gakkai Gijutsu Kenkyu Hokoku(IEIC Technical Report  
(Institute of Electronics, Information and Communication Engineers),  
2004, VOL.103,NO.733(NC2003 165-193), PAGE.55-60, FIG.12, REF.8  
JOURNAL NUMBER: S0532BBG ISSN NO: 0913-5685  
UNIVERSAL DECIMAL CLASSIFICATION: 681.3:165 681.3:007.52

LANGUAGE: Japanese                      COUNTRY OF PUBLICATION: Japan  
DOCUMENT TYPE: Journal  
ARTICLE TYPE: Original paper  
MEDIA TYPE: Printed Publication

**Real-time Individual Identification by the Iris Pattern Using a  
Rotation Spreading Neural Network**

ABSTRACT: In the present study, we attempted real-time individual identification with **iris pattern** by a rotation spreading neural network (R-SAN net). In the present system, the diameter...

...iris recognition experiment with several subjects, it was possible to recognize an individual by their **iris patterns** in an arbitrary orientation. This system recognized **iris patterns** without the influence caused by the variations of the zoom and the rotation direction of...

...irises to reject accurately them in this system. The false acceptance rate became 0% by **adding** a inner product and a minimum distance criteria. (author abst.)

...DESCRIPTORS: **video** camera

21/3,K/11                      (Item 2 from file: 94)

DIALOG(R)File 94:JICST-EPlus  
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04386281 JICST ACCESSION NUMBER: 99A0987367 FILE SEGMENT: JICST-E  
**Development of Three Dimensional Eye Movements Measuring System.**  
KAMIO TAKASHI (1); SAKAGUCHI TAKUYA (1); RYUMAE SABURO (1); SHIMIZU MASASHI (1)

(1) Tokyo Inst. of Technol.

Nihon Kikai Gakkai Nenji Taikai Koen Ronbunshu, 1999, VOL.1999,NO.Vol.1,  
PAGE.637-638, FIG.5, REF.2

JOURNAL NUMBER: X0587BAW

UNIVERSAL DECIMAL CLASSIFICATION: 616-073:612-087

LANGUAGE: Japanese                      COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Conference Proceeding

ARTICLE TYPE: Short Communication

MEDIA TYPE: Printed Publication

...ABSTRACT: is passed to a computer. In processing, the center of the pupil and the eight **characteristic** points on the **iris** around the pupil are automatically extracted. Therefore horizontal and vertical movement and torsional angle are...

...of this system is verified by rotating a paper-printed-eye photo. The photo is **attached** to a board with a potentiometer so that its rotation angle can be monitored. On the other hand, the rotating motion of the photo is recorded by a **video** camera and is calculated by the system algorithm. Comparing results shows that this measurement system ...

21/3,K/12                      (Item 3 from file: 94)

DIALOG(R)File 94:JICST-EPlus  
(c)2004 Japan Science and Tech Corp(JST). All rts. reserv.

03403487 JICST ACCESSION NUMBER: 97A0379899 FILE SEGMENT: JICST-E  
**Security and optical technique. Discrimination of iris patterns .**



**Discrimination technology of eye iris pattern based individuals,  
come to practical application stage.**

MATSUSHITA MITSUJI (1)

(1) Oki Electr. Ind. Co., Ltd.

Hikari Araiatsu(Optical Alliance), 1997, VOL.8,NO.4, PAGE.12-15, FIG.12,  
REF.1

JOURNAL NUMBER: L1746AAB ISSN NO: 0917-026X CODEN: HARAE

UNIVERSAL DECIMAL CLASSIFICATION: 681.3:165

LANGUAGE: Japanese

COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Commentary

MEDIA TYPE: Printed Publication

**Security and optical technique. Discrimination of iris patterns .**

**Discrimination technology of eye iris pattern based individuals,  
come to practical application stage. ...**

ABSTRACT: This paper describes a system which identifies a person by  
recognizing his (her) **iris pattern** . The wrinkle of human eyes stops  
growing several years after birth, keeps unchanged through the...

...A system to input the data of the features of the iris caught by a  
**video** camera, through an image processor, and identify the previously  
registered individuals was developed in the...

...DESCRIPTORS: **code** distance

...BROADER DESCRIPTORS: **code** characteristic

**21/3,K/13 (Item 4 from file: 94)**

DIALOG(R)File 94:JICST-EPlus

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02389297 JICST ACCESSION NUMBER: 95A0759027 FILE SEGMENT: JICST-E

**The Method of Gaze Extraction using Image Processing.**

MUKAI TOSHIRO (1); MITANI JUNJI (1); TOGAWA FUMIO (1)

(1) Sharp Corp.

Jinko Chino Gakkai Zenkoku Taikai Ronbunshu(Proceedings of the Annual

Conference of JSAI), 1995, VOL.9th, PAGE.553-556, FIG.5, TBL.4, REF.5

JOURNAL NUMBER: X0580AAA

UNIVERSAL DECIMAL CLASSIFICATION: 681.3:621.397.3 681.51:007.51

LANGUAGE: Japanese

COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Conference Proceeding

ARTICLE TYPE: Original paper

MEDIA TYPE: Printed Publication

ABSTRACT: We are developing multimodal man-machine interfaces through which  
users can communicate by **integrating** speech, gaze and facial  
expressions. We have analyzed human behavior in task-oriented face-to  
...

...from the edge image. Then we extract the feature patterns of the irises  
in rectangle **frames** of the eye-positions using a grayscale image.

These **iris - patterns** of both eyes are compared with standard  
patterns. The results of processing for the right eye and the left eye  
are **integrated** to determine the gaze direction using a number of  
rules. (author abst.) ...

**21/3,K/14 (Item 5 from file: 94)**

DIALOG(R)File 94:JICST-EPlus

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01700637 JICST ACCESSION NUMBER: 93A0157405 FILE SEGMENT: JICST-E  
**On Measurement of Angular Displacement of Human Eye using a 2-D CCD.**  
SATO KEIJIN (1); YAMAMOTO SUMIO (1); KAMATA OSAMU (1); AMI MAKOTO (2);  
FUKUSHIMA KAZUSHIRO (3); NAITO TOMIO (4)  
(1) Utsunomiya Univ., Faculty of Engineering; (2) Oyama Vocational Training  
College; (3) Tochiginikon; (4) Daido Steel Co., Ltd.  
Nippon Kikai Gakkai Ronbunshu. C (Transactions of the Japan Society of  
Mechanical Engineers. C), 1992, VOL.58, NO.556, PAGE.3644-3648, FIG.13,  
REF.6  
JOURNAL NUMBER: F0045BAL ISSN NO: 0387-5024  
UNIVERSAL DECIMAL CLASSIFICATION: 617.7-07 616-073:612-087  
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan  
DOCUMENT TYPE: Journal  
ARTICLE TYPE: Original paper  
MEDIA TYPE: Printed Publication

...ABSTRACT: angular displacements of the human eye obtained by calculating  
a cross-correlation function between the **iris pattern** and its  
reference pattern are shown. We conclude that it is possible to measure  
the...

...DESCRIPTORS: **coder** ; ...

... **video** camera

21/3,K/15 (Item 1 from file: 99)  
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs  
(c) 2004 The HW Wilson Co. All rts. reserv.

2709654 H.W. WILSON RECORD NUMBER: BAST04105045  
**How Iris Recognition Works**  
Daugman, John;  
IEEE Transactions on Circuits and Systems for Video Technology v. 14 no1  
(Jan. 2004) p. 21-30  
DOCUMENT TYPE: Feature Article ISSN: 1051-8215

ABSTRACT: Part of a special issue on image- and **video** -based biometrics.  
The writer explains how iris recognition algorithms work and presents  
results of 9...

...eye images from trials worldwide. Algorithms were developed and tested  
for recognizing persons by their **iris patterns**. The recognition  
principle was based on the nonsuccess of a test of statistical independence  
on iris phase structure **encoded** by multi-scale quadrature wavelets. The  
combinatorial complexity of this phase information across different persons  
...

21/3,K/16 (Item 1 from file: 144)  
DIALOG(R)File 144:Pascal  
(c) 2004 INIST/CNRS. All rts. reserv.

16564206 PASCAL No.: 04-0212551  
**Iris verification using correlation filters**  
AVBPA 2003 : audio- and video -based biometric person authentication :  
Guildford, 9-11 June 2003  
VIJAYA KUMAR B V K; CHUNYAN XIE; THORNTON Jason  
KITTLER Josef, ed; NIXON Mark S, ed  
Dept. of ECE, Carnegie Mellon University, Pittsburgh, PA 15213, United

States

International conference on audio- and video-based biometric person authentication, 4 (Guilford GBR) 2003-06-09

Journal: Lecture notes in computer science, 2003, 2688 697-705

Language: English

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**AVBPA 2003 : audio- and video -based biometric person authentication : Guildford, 9-11 June 2003**

**Iris patterns** are believed to be an important class of biometrics suitable for subject verification and identification applications. Earlier methods proposed for iris recognition were based on generating iris codes from features generated by applying Gabor wavelet processing to iris images. Another approach to image...

21/3,K/17 (Item 2 from file: 144)

DIALOG(R)File 144:Pascal

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15164679 PASCAL No.: 01-0328708

**Including Biometric Authentication in a Smart Card Operating System**

**AVBPA 2001 : audio- and video -based biometric person authentication : Halmstad, 6-8 June 2001**

SANCHEZ-REILLO Dr Raul

BIGUN Josef, ed; SMERALDI Fabrizio, ed

Carlos III University of Madrid, Dpt. Electric, Electronic and Automatic Engineering, c/Butarque, 15, 28911 Leganes, Madrid, Spain

Audio- and video-based biometric person authentication. International conference, 3 (Halmstad SWE) 2001-06-06

Journal: Lecture notes in computer science, 2001, 2091 342-347

Language: English

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**AVBPA 2001 : audio- and video -based biometric person authentication : Halmstad, 6-8 June 2001**

... biometric techniques, he has developed, up to today, three of them (based on Voice, Hand Geometry and Iris ). Therefore, he has obtained the conclusions needed to integrate the Biometric Authentication into the Operating System of a Smart Card. Using JavaCards, prototypes have...

21/3,K/18 (Item 3 from file: 144)

DIALOG(R)File 144:Pascal

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15164106 PASCAL No.: 01-0328124

**Iris recognition with low template size**

**AVBPA 2001 : audio- and video -based biometric person authentication : Halmstad, 6-8 June 2001**

SANCHEZ-REILLO Dr Raul; SANCHEZ-AVILA Dr Carmen

BIGUN Josef, ed; SMERALDI Fabrizio, ed

Carlos III University of Madrid, Dpt. Electric, Electronic and Automatic Engineering, c/Butarque, 15, 28911 Leganes, Madrid, Spain; Polytechnic University of Madrid, E.T.S.I. Telecomunicacion, Dpt. Applied Mathematics, Ciudad Universitaria, s/n, 28040 Madrid, Spain

Audio- and video-based biometric person authentication. International conference, 3 (Halmstad SWE) 2001-06-06

Journal: Lecture notes in computer science, 2001, 2091 324-329  
Language: English

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**AVBPA 2001 : audio- and video -based biometric person authentication :  
Halmstad, 6-8 June 2001**

... and fast verification algorithms. This effort is intended to enable a human authentication in small **embedded** systems, such as an **Integrated Circuit Card** (smart cards). The final results show viability of this target, enabling a template...

English Descriptors: Biometrics; Image processing; Eye; **Iris** (eye);  
**Pattern** recognition; **Pattern** extraction

21/3,K/19 (Item 1 from file: 239)

DIALOG(R)File 239:Mathsci

(c) 2004 American Mathematical Society. All rts. reserv.

03589384 MR 2004j#94003

**Wavelet analysis and its applications.**

Proceedings of the 2nd International Conference (WAA 2001) held in Hong Kong, December 18--20, 2001. Edited by Yuan Y. Tang, Victor Wickerhauser, Pong C. Yuen and Chun-hung Li.

Contributors: Tang, Yuan Y.; Wickerhauser, Victor; Yuen, Pong C.; Li, Chun-hung

Publ: Springer-Verlag, Berlin,

2001, xiv+450 pp. ISBN: 3-540-43034-2

Series: Lecture Notes in Computer Science, 2251.

Language: English

Wavelet analysis and its applications; Hong Kong,; Lecture Notes in Computer Science, 2001 2251

Subfile: MR (Mathematical Reviews) AMS

Abstract Length: LONG (124 lines)

Reviewer: Editors

...refcno 1887496\endrefcno].\}

Contents: John Daugman, Personal identification in real-time by wavelet analysis of **iris patterns** (1); Bruno Torresani, Hybrid representations of audiophonic signals (2); M. Victor Wickerhauser, Singularity detection from...

...via wavelet packets (3); Claudia Schremmer, Empirical evaluation of boundary policies for wavelet-based image **coding** (4--15); Song Guoxiang and Wang Weiwei, Image-feature based second generation watermarking in wavelet...

...Y. Chuang and Ching-Chung Li, A wavelet-based preprocessing for moving object segmentation in **video** sequences (54--64); Mbainabeye Jerome and Nouredine Ellouze, **Embedded** zerotree wavelet **coding** of image sequence (65--75).

Detlev Marpe, Thomas Wiegand and Hans L. Cycon, Wavelet-based **video** compression using long-term memory motion-compensated prediction and context-based adaptive arithmetic **coding** (76--86); Yoshito Ueno, Wavelets and fractal image compression based on their self-similarity of...

...frequency plane of images (87--98); Stefan Heinrich, Fred J. Hickernell and Rong-Xian Yue, **Integration** of multivariate Haar wavelet series (99--106) \refcno 2046042\endrefcno; Han-zhang Qu, Chen Xu...

...banks via a tree structure (341--346); Sharif Md. Raihan, Yi Wen and Bing Zeng, **Joint** time-frequency distributions for business cycle analysis (347--358).

Zaidi Razak and Mashkuri Yaacob, The...

21/3,K/20 (Item 1 from file: 483)

DIALOG(R)File 483:Newspaper Abs Daily

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07612453 SUPPLIER NUMBER: 639066541

**INNER LIFE; So clever, so cheap; Jackie Terrell fell into interior design -- and back to the Park La Brea towers -- out of necessity. The former painter reinvented her life and living space with a fuss-free chic that relies on creativity, not cash. Turns out style can get you out of almost any situation.**

Abramian-Mott, Alexandria

Los Angeles Times, p F.1

May 20, 2004

ISSN: 0458-3035

NEWSPAPER CODE: ANGE

DOCUMENT TYPE: Feature; Newspaper article

LANGUAGE: English

RECORD TYPE: ABSTRACT

...ABSTRACT: one bedroom as an office. Her apartment also serves as an idea lab for the **design** business.; PHOTOGRAPHER: **Iris** Schneider Los Angeles Times; FIT FOR WOMAN AND BEAST Sam basks in the bedroom's...

...WALL OF CHILDREN: Childhood photos of friends march in a row of 16 identical black **frames** . Terrell plans to **add** more to the lineup.; PHOTOGRAPHER: Iris Schneider Los Angeles Times

21/3,K/21 (Item 2 from file: 483)

DIALOG(R)File 483:Newspaper Abs Daily

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06630100 SUPPLIER NUMBER: 85779450

**Security on the Brain, Solutions in the Eyes**

Simons, Marlise

New York Times, p A.4

Oct 25, 2001

ISSN: 0362-4331

NEWSPAPER CODE: NYT

DOCUMENT TYPE: News; Newspaper article

LANGUAGE: English

RECORD TYPE: ABSTRACT

...ABSTRACT: airport, holders of a card with the image of their iris captured in a computer **code** should be able to whip through a special passage and avoid passport control and long lines. All it takes is a few seconds of peering into a **video** camera, and the computer to recognize that the scanned eye matches the data on the...

...even identical twins have different irises.'" An official at the Amsterdam airport, above, demonstrating the **iris scanner** . The image pops up on security monitors, but it is the computer that determines whether the eye matches the data on an **encoded** card. (Photographs by Ronald van Teunenbroek/Studio 88)

21/3,K/22 (Item 3 from file: 483)

DIALOG(R)File 483:Newspaper Abs Daily  
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05775966 SUPPLIER NUMBER: 46190149

**Techway; Technology for a Swift Eye-D; A Falls Church Entrepreneur Thinks  
Iris Scans Will Replace Tickets for Travel and Sports Events**

Noguchi, Yuki

Washington Post, p F05

Nov 8, 1999

ISSN: 0190-8286 NEWSPAPER CODE: TWP

DOCUMENT TYPE: Feature; Newspaper article

LANGUAGE: English RECORD TYPE: ABSTRACT

**Techway; Technology for a Swift Eye-D; A Falls Church Entrepreneur Thinks  
Iris Scans Will Replace Tickets for Travel and Sports Events**

...ABSTRACT: firm sees a strong business future in new technology that identifies individuals by their unique **iris patterns**. This foolproof identification, the company says, will enable consumers to do without passports, driver's...

...attend events. The way the technology works is this: At initial enrollment, a closed-circuit **video** camera takes a picture of your eye and translates the picture into a 512-byte **code**, which is entered into a computer. Thereafter, the camera can recognize your iris and unlock information registered under that **code**. With more than 300 **characteristics** in an **iris pattern** -- striations, curves, undulations -- the resulting **code** is certain identification for flight booking, payment, seating, and other information, [Stewart M.] Mann said...

21/3,K/23 (Item 4 from file: 483)

DIALOG(R)File 483:Newspaper Abs Daily  
(c) 2004 ProQuest Info&Learning. All rts. reserv.

04540951

**ATM Cash For Your Eyes Only / New device IDs a customer's iris**

Sinton, Peter

San Francisco Chronicle, Sec A, p 1, col 6

Apr 11, 1997

NEWSPAPER CODE: SF

DOCUMENT TYPE: News; Newspaper

LANGUAGE: English RECORD TYPE: ABSTRACT

LENGTH: Long (18+ col inches)

...ABSTRACT: than human fingerprints. The New York-based banking giant has committed \$3 million to test **iris scanners** made by Sensar Inc. of Moorestown, N.J., at its development center in Los Angeles...

...40 in a fingerprint, according to Sensar. These can be easily captured by taking a **video** picture from about 36 inches away, converting the image into digital **code** and comparing that to customer information in the bank's database.

?

27/3,K/1 (Item 1 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2004 Institution of Electrical Engineers. All rts. reserv.

6746723 INSPEC Abstract Number: B2000-12-6430H-002, C2000-12-5260D-029  
**Title: Digital watermarking for DVD video copy protection**  
Author(s): Maes, M.; Kalker, T.; Linnartz, J.-P.M.G.; Talstra, J.; Depovere, F.G.; Haitzma, J.  
Author Affiliation: Digital Singnal Processing Group, Philips Res. Lab., Eindhoven, Netherlands  
Journal: IEEE Signal Processing Magazine vol.17, no.5 p.47-57  
Publisher: IEEE,  
Publication Date: Sept. 2000 Country of Publication: USA  
CODEN: ISPRE6 ISSN: 1053-5888  
SICI: 1053-5888(200009)17:5L:47:DWVC;1-V  
Material Identity Number: 0648-2000-005  
U.S. Copyright Clearance Center Code: 1053-5888/2000/\$10.00  
Language: English  
Subfile: B C  
Copyright 2000, IEE

**Title: Digital watermarking for DVD video copy protection**  
...Abstract: that play a role in designing a copy-protection system for digital versatile disk (DVD) **video** as perceived by Millennium, one of the two contenders in the DVD- **video** copy-protection standardization activity. We present the Millennium **watermark** system, the systems proposed for DVD **video** copy protection by Philips, Macrovision, and **Digimarc**. We also address some specific system aspects, such as **watermark** detector location and copy generation control.

...Descriptors: **video coding** ; ...

... **video** discs

...Identifiers: DVD **video** copy protection...

...DVD- **video** ; ...

... **Digimarc** ; ...

... **watermark** detector location

27/3,K/2 (Item 1 from file: 8)  
DIALOG(R)File 8:Ei Compendex(R)  
(c) 2004 Elsevier Eng. Info. Inc. All rts. reserv.

04558724 E.I. No: EIP96113419944  
**Title: Digital watermarking: New techniques for image ownership branding**  
Author: Okon, Chris  
Source: Advanced Imaging v 11 n 10 Oct 1996. 2p  
Publication Year: 1996  
CODEN: ADIMEZ ISSN: 1042-0711  
Language: English

...Abstract: inside the 'envelope' can be identified through a technique called digital watermarking. The function of **watermark** is to proclaim a copyright or subtly and indisputably **embed** ownership information into an image. Watermarks can furnish such metadata as person or company or entity that represent rightful copyright owner. Watermarking can be implemented to other media, **video**, audio, text, and image. NEC Research and **Digimarc** Corporation are two companies which are banking on their **embedded** digital

watermarking solutions.

27/3,K/3 (Item 1 from file: 233)

DIALOG(R)File 233:Internet & Personal Comp. Abs.

(c) 2003 EBSCO Pub. All rts. reserv.

00504627 98MA08-005

Digimarc enhances watermarking scheme

Ryer, Kelly

MacWEEK , August 3, 1998 , v12 n29 p1, 6, 2 Page(s)

ISSN: 0892-8118

Company Name: Digimarc

URL: <http://www.digimarc.com> <http://www.digimarc.com> <http://www.digimarc.com>

Product Name: Digimarc Batch Embedder ; Smart ID; MarcSpider

Digimarc enhances watermarking scheme

Company Name: Digimarc

Product Name: Digimarc Batch Embedder ; Smart ID; MarcSpider

Announces the upcoming release of Digimarc Batch Embedder (\$79.95), a digital watermarking batch embedder from Digimarc Corp. of Lake Oswego, OR (503, 800). Explains that it will automatically embed a watermark in multiple images at once, allowing users to control the degree of the watermark 's intensity and compression settings. Also announces the release of Digimarc 's Smart ID (\$500 annual fee), which will link Web-based images to a profiled...

... 4,000 annual fee) search service for tracking watermarked images over the Web. Adds that Digimarc plans to co-develop a play-control and digital watermarking system for DVD and electronic video , together with Royal Philips Electronics and Macrovision Corp. Includes one screen display. (kgh)

Identifiers: Digimarc Batch Embedder ; Smart ID; MarcSpider;

Digimarc

?



File 344:Chinese Patents Abs Aug 1985-2004/May  
(c) 2004 European Patent Office  
File 347:JAPIO Nov 1976-2004/Apr(Updated 040802)  
(c) 2004 JPO & JAPIO  
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200452  
(c) 2004 Thomson Derwent

Set	Items	Description
S1	356320	CAMERA? OR SCANNER??
S2	571	(IRIS OR RETINA) (3N) (PRINT? ? OR MARK? ? OR DESIGN? ? OR G- EOMETRY, OR PATTERN? ? OR SIGNATURE? ? OR CHARACTERISTIC? OR A- TTRIBUTE?)
S3	84	(IRIS OR RETINA OR EYE) () SCAN?
S4	11810	FINGERPRINT? OR FINGER() PRINT?
S5	4253	WATERMARK OR WATER() MARK?
S6	83	STEGANOGRAPHIC?
S7	3443	BIOMETRIC? OR USER(3N) ATTRIBUTE?
S8	6489	(INSERT? OR EMBED? OR ATTACH? OR ENCOD???? OR CODES OR COD- ING OR CODE?? OR ENCRYPT? OR INSERT? OR MERG? OR JOIN? OR INT- EGRAT? OR ADD OR ADDED OR ADDING) AND (S2 OR S3 OR S4 OR S5 OR S6)
S9	2471	(EYEPiece? OR EYE() PIECE?) AND CAMERA?
S10	1806584	VIDEO OR FRAMES OR MULTIMEDIA OR MULTI() MEDIA OR IMAGE?? OR AUDIO OR MEDIA
S11	184535	IC=G06K?
S12	2599	S8 AND S10
S13	0	S12 AND S9
S14	299	S12 AND S1
S15	97	S14 AND S11
S16	8	S15 AND (STREAM? OR MOV?)
S17	0	S9 AND CAPTUR? AND (S2 OR S3)
S18	8	S1 AND CAPTUR? AND (S2 OR S3)
S19	8	S18 NOT S16
S20	56	(INSERT? OR EMBED? OR ATTACH? OR ENCOD???? OR CODES OR COD- ING OR CODE?? OR ENCRYPT? OR INSERT? OR MERG? OR JOIN? OR INT- EGRAT? OR ADD OR ADDED OR ADDING) AND (S2 OR S3) AND S10
S21	53	S20 NOT (S18 OR S16)
S22	23	S21 AND AD=20000605:20040817/PR
S23	30	S21 NOT S22
S24	30	IDPAT (sorted in duplicate/non-duplicate order)
S25	28	IDPAT (primary/non-duplicate records only)

16/3,K/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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016217017 \*\*Image available\*\*  
WPI Acc No: 2004-374905/200435  
XRAM Acc No: C04-140934  
XRPX Acc No: N04-298287

User authentication method in financial institution, involves generating  
template for extracted biometric data e.g. iris data and retina data of  
user using identification card, and comparing it with prestored template

Patent Assignee: DOMBROWSKI J D (DOMB-I)  
Inventor: DOMBROWSKI J D  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20040091136	A1	20040513	US 2002293647	A	20021113	200435 B

Priority Applications (No Type Date): US 2002293647 A 20021113  
Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20040091136	A1	11	G06K-009/00	

Abstract (Basic):

... is compared with the extracted template, in order to determine  
owner of the card. The **encrypted** authentication data in the device is  
valid, based on the determination result.

... credit card, using biometric identification data such as iris  
data, retina data, face data, lip **movement** data, **finger print**  
data, nail data, vein data, voice data, DNA data, credit card data and  
identification data...

... **Video camera** (302  
International Patent Class (Main): **G06K-009/00**

16/3,K/2 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

015836015 \*\*Image available\*\*  
WPI Acc No: 2003-898219/200382  
XRPX Acc No: N03-716842

Fingerprint images capturing apparatus, has digital camera with  
accessory lens assembly that is movable through hinge to cover primary  
lens for fingerprint imaging and away form lens

Patent Assignee: BUTTERWORTH M M (BUTT-I)  
Inventor: BUTTERWORTH M M  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030169905	A1	20030911	US 200294567	A	20020307	200382 B

Priority Applications (No Type Date): US 200294567 A 20020307  
Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20030169905	A1	14	G06K-009/00	

Fingerprint images capturing apparatus, has digital camera with  
accessory lens assembly that is movable through hinge to cover primary  
lens for fingerprint imaging and away form lens

Abstract (Basic):

... has an accessory lens assembly (202A) with a surface to support a finger to be **imaged** and to direct light reflected from the finger to a primary lens (108) of the **camera** (200). A hinge (202B) connects the lens assembly to the **camera**. The lens assembly is **movable** through the hinge to cover the primary lens for **fingerprint** imaging and away from the primary lens.

... Used for capturing **images** of **fingerprints** in electronic devices e.g. cellular telephones and personal digital assistants...

...The **movement** of the accessory lens enables the use of the apparatus for general-purpose photography...

...The drawing shows a front view of a digital **camera** used as a general-purpose **camera** and a **fingerprint** sensor...

... **Camera** (200...

... **Fingerprint attachment** (202

Title Terms: **FINGERPRINT** ;

International Patent Class (Main): **G06K-009/00**

**16/3,K/3** (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014660945 \*\*Image available\*\*

WPI Acc No: 2002-481649/200252

XRPX Acc No: N02-380488

Watermark **signal** embedding **method in digital image**, involves **combining modified dispersed message image with digital image to produce watermark image**

Patent Assignee: EASTMAN KODAK CO (EAST )

Inventor: HONSINGER C W; JONES P W

Number of Countries: 028 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1215624	A2	20020619	EP 2001204593	A	20011130	200252 B
US 20020106103	A1	20020808	US 2000736067	A	20001213	200254
JP 2002262066	A	20020913	JP 2001379583	A	20011213	200276

Priority Applications (No Type Date): US 2000736067 A 20001213

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 1215624	A2	E	14	G06T-001/00	
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Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT

LI LT LU LV MC MK NL PT RO SE SI TR

US 20020106103	A1			G06K-009/00	
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JP 2002262066	A		10	H04N-001/387	
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Watermark **signal** embedding **method in digital image**, involves **combining modified dispersed message image with digital image to produce watermark image**

Abstract (Basic):

... Each pixel value of a dispersed message **image** is modified, as a function of the corresponding pixel value in the digital **image**. The modified dispersed message **image** is combined with digital **image** to produce a **watermark image**.

... For **embedding watermark** signal in digital **images** used in imaging system such as digital still and **video camera** , printer and other hardcopy output devices and content delivery service. Also, used for digital cinema and theatrical **movies** .

...Minimizes the objectionability of the **watermark** pattern, by making its appearance similar to expected noise of imaging system...

...The figure shows the block diagram illustrates the signal dependent **watermark embedding** process

Technology Focus:

... The **images** are compressed using MPEG standard.

Title Terms: **WATERMARK** ;

International Patent Class (Main): **G06K-009/00** ...

**16/3,K/4** (Item 4 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

014635396 \*\*Image available\*\*

WPI Acc No: 2002-456100/200249

XRPX Acc No: N02-359614

**Watermark embedding method for digital image , involves adding basis function which when correlated with scaled and rotated version of basis function is equal to auto-correlation of function within complex multiplication constant, to image**

Patent Assignee: CANON KK (CANO )

Inventor: FLETCHER P A; LARKIN K G

Number of Countries: 028 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1202552	A2	20020502	EP 2001309049	A	20011025	200249 B
AU 200181525	A	20020502	AU 200181525	A	20011019	200249
JP 2002247344	A	20020830	JP 2001328608	A	20011026	200273
AU 768343	B	20031211	AU 200181525	A	20011019	200404

Priority Applications (No Type Date): AU 20001050 A 20001027

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 1202552	A2	E	48	H04N-001/32	
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Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT

LI LT LU LV MC MK NL PT RO SE SI TR

AU 200181525	A			G06T-001/00	
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JP 2002247344	A		128	H04N-001/387	
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AU 768343	B			G06T-009/00	Previous Publ. patent AU 200181525
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**Watermark embedding method for digital image , involves adding basis function which when correlated with scaled and rotated version of basis function is equal to auto-correlation of function within complex multiplication constant, to image**

Abstract (Basic):

... substantially equal to the auto-correlation of the function within a complex multiplication constant, is **added** to an **image** to which the **watermark** is to **embedded** .

... 1) **Watermark** detection method...

...3) Transformed **image** registering method...

...4) **Image** processing apparatus for **watermark embedding** ;  
 (...  
 ...5) **Image** processing apparatus for **watermark detection**...  
 ...6) **Image** processing apparatus for **adding** registration marks to  
**image** ;  
 (...  
 ...7) **Image** processing apparatus for registering transformed **image** ;  
 (...  
 ...8) Data processing apparatus for **watermark embedding** ;  
 (...  
 ...9) Data processing apparatus for **watermark detection**...  
 ...10) Program storing instructions for **watermark embedding** ;  
 (...  
 ...11) Program storing instructions for **watermark detection**...  
 ...13) Watermarked **image** ;  
 (...  
 ...14) **Audio stream** ; and...  
 ...15) Signal carrying instructions for **watermark embedding** , detection,  
**adding** registration marks to **image** .  
 ...  
 ...For **embedding watermark** in digital **images** for digital **camera** ,  
**video** , **camera** , **scanner** or photocopier...  
 ... **Embedded** patterns can survive and still is detectable after  
 sophisticated **watermark** attacks such as pitch changing and  
 resampling, because of the scale invariant property...  
 ...The figure shows a **watermark** pattern  
 Title Terms: **WATERMARK** ;  
 International Patent Class (Additional): **G06K-009/46** ...  
 ... **G06K-009/74**

16/3,K/5 (Item 5 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
 (c) 2004 Thomson Derwent. All rts. reserv.

012698948 \*\*Image available\*\*  
 WPI Acc No: 1999-505057/199942  
 XRPX Acc No: N99-377865

**Image security providing system in image processor for moving**  
**images camera - embeds electronic watermark only to encoding**  
**data in image frame**

Patent Assignee: CANON KK (CANO )  
 Inventor: IWAMURA K; NAGASAWA K; YOSHIDA J  
 Number of Countries: 004 Number of Patents: 004  
 Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 11220736	A	19990810	JP 9818666	A	19980130	199942 B

CN 1233914	A	19991103	CN 99101812	A	19990129	200011
SG 87017	A1	20020319	SG 99155	A	19990125	200234
US 6449378	B1	20020910	US 99235390	A	19990122	200263

Priority Applications (No Type Date): JP 9818666 A 19980130

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 11220736	A		10	H04N-007/32	
CN 1233914	A			H04N-005/913	
SG 87017	A1			H04N-007/32	
US 6449378	B1			G06K-009/00	

Image **security providing system in image processor for moving**  
images camera - ...

... embeds **electronic watermark only to encoding data in image frame**

...Abstract (Basic): NOVELTY - The **image processor embeds electronic watermark** only to the **encoding data in an image frame**. DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for the following: **image security providing method; recording medium which stores image security provision program...**

...USE - Used for protection of copyright, prevention of **image** modification and for information recording using **watermark** for **moving image data** obtained from **camera** .

...

...ADVANTAGE - As the **electronic watermark** is **embedded** only to the **encoding data**, less memory is used. Processing velocity need not be enhanced largely. DESCRIPTION OF DRAWING(S) - The figure shows block diagram of **image processor**

Title Terms: **IMAGE** ;

International Patent Class (Main): **G06K-009/00** ...

**16/3,K/6** (Item 6 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

011591946 \*\*Image available\*\*

WPI Acc No: 1998-009075/199801

XRPX Acc No: N98-007110

**Compact image steering and focusing apparatus e.g. for image recognition - has mirror drive motor fixed to frame on one side of tilt plane and lens motor fixed to frame on other side, with frame rotatably fixed to stand connected to frame drive motor**

Patent Assignee: SENSAR INC (SENS-N); CHMIELEWSKI T A (CHMI-I); NEGIN M (NEGI-I); VONHOF G A (VONH-I)

Inventor: CHMIELEWSKI T A; NEGIN M; VONHOF G A

Number of Countries: 076 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9743677	A1	19971120	WO 97US8131	A	19970514	199801 B
US 5717512	A	19980210	US 96648324	A	19960515	199813
AU 9730062	A	19971205	AU 9730062	A	19970514	199814
EP 1010029	A1	20000621	EP 97924711	A	19970514	200033
			WO 97US8131	A	19970514	

Priority Applications (No Type Date): US 96648324 A 19960515

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes  
WO 9743677 A1 E 40 G02B-017/08  
Designated States (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU  
CZ DE DK EE ES FI GB GE HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV  
MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG UZ  
VN  
Designated States (Regional): AT BE CH DE DK EA ES FI FR GB GH GR IE IT  
KE LS LU MC MW NL OA PT SD SE SZ UG  
US 5717512 A 14 G02B-026/08  
AU 9730062 A G02B-017/08 Based on patent WO 9743677  
EP 1010029 A1 E G02B-017/08 Based on patent WO 9743677  
Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LI NL  
PT SE

**Compact image steering and focusing apparatus e.g. for image recognition...**

...Abstract (Basic): end face, equidistant from the arms is a tilt plane. A primary mirror is pivotally **attached** between the arms rotating around a pan axis normal to the tilt plane. A motor (45) on one side of the tilt plane is **attached** to the frame and connected to the mirror to rotate it about the pan axis...

...is located between the arms aligned with the primary mirror. A lens motor (47) is **attached** to the frame and to the lens to **move** it away from the mirror, positioned opposite to the mirror drive motor. The frame rotates...

...Relates to apparatus for directing light reflected from object in scene through lens and into **camera** for use in biometrics e.g. **fingerprint** or signature recognition...

...ADVANTAGE - Can obtain clear **image** of small region on object located from one to three feet from optical system...

...Title Terms: **IMAGE** ;

International Patent Class (Additional): **G06K-009/00**

**16/3,K/7 (Item 7 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

010990993 \*\*Image available\*\*

WPI Acc No: 1996-487942/199649

XRPX Acc No: N96-411126

**User identification system using dynamic Ashley Webb lock processor on card for enabling access to facility - uses data from card to control sampling rates in two-dimensions of position of pen moved by user e.g. for writing signature, and compares with data stored on card**

Patent Assignee: ASHLEY A L (ASHL-I)

Inventor: ASHLEY A L

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2300742	A	19961113	GB 969713	A	19960509	199649 B
GB 2300742	B	19991006	GB 969713	A	19960509	199943

Priority Applications (No Type Date): GB 959388 A 19950509

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes  
GB 2300742 A 39 G06K-009/00  
GB 2300742 B G06K-009/00

... uses data from card to control sampling rates in two-dimensions of position of pen moved by user e.g. for writing signature, and compares with data stored on card

...Abstract (Basic): stored on the card. A second interface comprises a user hand command non-contact optical **camera** interface, and a third interface is a voice command non-contact **audio** interface...

...may be accessed by different command mechanisms. The information stored will include a user PIN **code** and a general emergency **code**, and a unique user personal mark of the Webb Lock, an optical unique internal digitised interface, optical digitised **fingerprints**, data associated with hand or voice commands, and various personal data e.g. medical record...

...Title Terms: **MOVE** ;

International Patent Class (Main): **G06K-009/00**

**16/3,K/8 (Item 8 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

004801684

WPI Acc No: 1986-305025/198646

XRPX Acc No: N86-227984

**Automatic optical and electrical scanning method finger print - measuring skin resistance over adjacent narrow bands confirming finger presence and synchronising array imaging**

Patent Assignee: JENSEN P R (JENS-I); JYDSL TELEFON A/S (JYDS-N)

Inventor: JENSEN P R

Number of Countries: 034 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 8606266	A	19861106	WO 86DK44	A	19860428	198646 B
AU 8658172	A	19861118				198705
DK 8501984	A	19861103				198705
EP 220294	A	19870506	EP 86903259	A	19860428	198718
US 4784484	A	19881115	US 8623557	A	19861204	198848
EP 220294	B	19910116				199103
DE 3676940	G	19910221				199109

Priority Applications (No Type Date): DK 851984 A 19850502

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 8606266 A E 18

Designated States (National): AT AU BG BR CH DE DK FI GB HU JP KP KR LK LU MC MG MW NL NO RO SD SE SU US

Designated States (Regional): AT BE CF CH CM DE FR GA GB IT LU NL SE SN TD TG

EP 220294 A E

Designated States (Regional): DE FR GB NL SE

EP 220294 B

Designated States (Regional): DE FR GB NL SE

**Automatic optical and electrical scanning method finger print -**

...Abstract (Basic): In scanning the **fingerprints** side, a finger is



**moved** over the scanning surface of a moulded acrylic block. In the scanning surface are **embedded** the fine wires of a device for measuring the skin resistance and rate of finger **movement**. The scanning surface is designed to present a substantially uniform level of friction against sliding finger **movement** in order that the finger **movement** may be at a uniform rate. Beneath the block, an elongate light source has slit...

...reflected light from the entire scanning area on the active part of an optical/electrical **scanner**, containing a linear array of 256 punctiform photocells, using imaging optics. The scanning control is...

...USE/ADVANTAGE - Determines optical papillary pattern corresponding to **fingerprint** and converts into electrical signal...

...Abstract (Equivalent): Method for automatic scanning of **fingerprints** by directing light towards the **fingerprint** side of a finger contacting a scanning surface by converting the reflected light into an ...

...passing a scanning area incorporated in the scanning surface, characterised in that the finger is **moved** along the scanning surface while measuring the rate of **movement** in relation to the scanning surface. (7pp)

...Abstract (Equivalent): The apparatus comprises a scanning surface (3) with a measurer (5) for the rate of **movement** of the finger in relation to the scanning surface, and with a scanning area (4), a light (6), an optical system (7,8) and an electrical/optical **scanner** (9) giving an electrical signal (A) as a function of the **fingerprint** when the finger is **moved** in contact with the scanning surface (3) in the direction of the arrow...

...undertaken by line scanning along the scanning line (4) in that the scanning line is **imaged** onto the active part of the scanning means (9). The active part consists for example...

...Title Terms: **IMAGE**

...International Patent Class (Additional): **G06K-009/20**

?

19/3,K/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2004 JPO & JAPIO. All rts. reserv.

07399500 \*\*Image available\*\*  
**RETINA SCANNING DISPLAY DEVICE**

PUB. NO.: 2002-268002 [JP 2002268002 A]  
PUBLISHED: September 18, 2002 (20020918)  
INVENTOR(s): SATOU SHINJI  
APPLICANT(s): MITSUBISHI HEAVY IND LTD  
APPL. NO.: 2001-065483 [JP 200165483]  
FILED: March 08, 2001 (20010308)

**RETINA SCANNING DISPLAY DEVICE**

ABSTRACT

...to eyes even when the lightness of an external field varies with respect to a **retina scanning** display device.

SOLUTION: An external image 20 is **captured** by an electronics device 10 and sent as elements of the image to a horizontal and vertical **scanner** 12. A modulation light source 11 sends source laser light to the horizontal and vertical **scanner** 12, wherein the source laser light is added to the elements of the image to become a laser beam; and the horizontal and vertical **scanner** 12 makes a scan with the laser beam and the laser beam is converged by...

19/3,K/2 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

016269320 \*\*Image available\*\*  
WPI Acc No: 2004-427214/200440  
**System and method for automatically analyzing iris in remote place**

Patent Assignee: CHOL K Y (CHOL-I)  
Inventor: CHOL K Y; KIM S H  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
KR 2004011846	A	20040211	KR 200245005	A	20020730	200440 B

Priority Applications (No Type Date): KR 200245005 A 20020730

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
KR 2004011846	A		1 G06K-009/00	

Abstract (Basic):

... remote place are provided to perform all diagnoses promptly by automatically analyzing an iris image **captured** in the remote place and responding a result, and to offer the reference data of...  
... a sector database(111) storing the sector information to fix a sector for analyzing the **iris**, a **pattern** database(113) storing the analysis pattern data divided into a small group, and an additional data database(115) storing the exceptional or other opinion data for the analyzed **iris pattern**. The server processor calculates an operation by calling the automatic iris analysis engine, and controls  
...

...an output device(203), and a terminal processor(220). The input device includes an iris **camera** and a keyboard...

19/3,K/3 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

015114812 \*\*Image available\*\*  
WPI Acc No: 2003-175332/200317  
XRPX Acc No: N03-138041

**Vehicular security access system unlocks vehicle door and/or trunk by capturing iris image pattern and performing comparative analysis with stored iris image pattern of operator**

Patent Assignee: SAM MOG SON (SAMM-N)  
Number of Countries: 093 Number of Patents: 002  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200302387	A1	20030109	WO 2001US20242	A	20010626	200317 B
AU 2001271450	A1	20030303	AU 2001271450	A	20010626	200452
			WO 2001US20242	A	20010626	

Priority Applications (No Type Date): WO 2001US20242 A 20010626

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes  
WO 200302387 A1 E 27 B60R-025/10

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA  
CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP  
KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT  
RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR  
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

AU 2001271450 A1 B60R-025/10 Based on patent WO 200302387

**Vehicular security access system unlocks vehicle door and/or trunk by capturing iris image pattern and performing comparative analysis with stored iris image pattern of operator**

Abstract (Basic):

... The optical recognition vehicular security access system **camera**  
(16) **captures** in real time an iris image of the potential operator  
(12), when he tries the...

...found or an alarm will be sounded. If the system detects insufficient  
ambient light to **capture** an image than it will use an infrared lamp  
to **capture** an iris image for comparative analysis.

... **Camera** (16

...Title Terms: **CAPTURE** ;

19/3,K/4 (Item 3 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

014445557 \*\*Image available\*\*  
WPI Acc No: 2002-266260/200231  
XRPX Acc No: N02-206828

**Optical recognition vehicle security system e.g. for car, unlocks door of vehicle, when stored and picked-up iris images are in accord**

Patent Assignee: SON S M (SONS-I)

Inventor: SON S M

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6323761	B1	20011127	US 2000585796	A	20000603	200231 B

Priority Applications (No Type Date): US 2000585796 A 20000603

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6323761	B1	17	B60R-025/10	

Abstract (Basic):

... A computer (28) moves a **camera** (16) across the predetermined filed of view outside the vehicle (14) so as to focus...  
...the operator (12). A central processing unit compares stored iris images of approved operators with **captured** real-time iris images. The door of the vehicle is opened, when both the images...  
... One or more individuals can control the unlocking of the doors, since **iris characteristics** are used...  
... **Camera** (16

19/3,K/5 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

014134180 \*\*Image available\*\*

WPI Acc No: 2001-618391/200172

XRPX Acc No: N01-461275

**Image processor for personal authentication apparatus, has processor for computing feature pattern based on feature points extracted from object images**

Patent Assignee: TOSHIBA KK (TOKE ); OKAZAKI A (OKAZ-I); SATO T (SATO-I)

Inventor: OKAZAKI A; SATO T

Number of Countries: 028 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1134691	A2	20010919	EP 2001105113	A	20010302	200172 B
JP 2001331799	A	20011130	JP 2000347043	A	20001114	200202
US 20030206645	A1	20031106	US 2001808939	A	20010316	200374

Priority Applications (No Type Date): JP 2000347043 A 20001114; JP 200074489 A 20000316

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
EP 1134691	A2 E	23	G06K-009/46	

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR

JP 2001331799 A 16 G06T-007/00

US 20030206645 A1 G06K-009/00

Abstract (Basic):

... The **capture** boards extract feature points from the object images, which are sensed from different directions using video **cameras**. A processor computes a feature pattern based on the extracted feature points.  
... to authenticate a person based on vital information such as a facial image, fingerprints, palm **prints**, voice **prints**, **signature**, **retina** and **iris** image...

19/3,K/6 (Item 5 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

013310627 \*\*Image available\*\*  
WPI Acc No: 2000-482564/200042  
XRPX Acc No: N00-358808

**Biometric input device for security system, has thumb print scanner for capturing image of thumb print of user**

Patent Assignee: DIGITAL SECURITY CONTROLS LTD (DIGI-N)

Inventor: PARKER J

Number of Countries: 023 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200038118	A1	20000629	WO 99CA1212	A	19991220	200042 B
CA 2256809	A1	20000621	CA 2256809	A	19981221	200044
AU 200017645	A	20000712	AU 200017645	A	19991220	200048

Priority Applications (No Type Date): CA 2256809 A 19981221

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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WO 200038118	A1	E 23	G07C-009/00	
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Designated States (National): AU BR CN JP

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU  
MC NL PT SE

CA 2256809	A1	E	G06K-009/68
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AU 200017645	A		G07C-009/00	Based on patent WO 200038118
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**Biometric input device for security system, has thumb print scanner for capturing image of thumb print of user**

Abstract (Basic):

... A thumb print **scanner** is provided in input module (30) for **capturing** image of thumb print of user. The input module has an input/output module for passing the **captured** image to a control panel for comparison against database of thumb print data of authorized...

... The biometric data is also chosen from hand print, voice print, hand geometry, facial feature **geometry** or **retina scan**.

...Title Terms: **CAPTURE** ;

19/3,K/7 (Item 6 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

013220198 \*\*Image available\*\*  
WPI Acc No: 2000-392072/200034  
XRPX Acc No: N00-293968

**Iris pattern input device for acquiring image of iris pattern of human eye, converts light reflected by one way mirror to video signal**

Patent Assignee: OKI ELECTRIC IND CO LTD (OKID )

Inventor: ODA T; OHTA Y

Number of Countries: 002 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2000132665	A	20000512	JP 98303656	A	19981026	200034 B
JP 3212952	B2	20010925	JP 98303656	A	19981026	200162

US 6591001 B1 20030708 US 99425170 A 19991022 200353

Priority Applications (No Type Date): JP 98303656 A 19981026

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2000132665	A		10	G06T-001/00	
JP 3212952	B2		9	G06T-001/00	Previous Publ. patent JP 2000132665
US 6591001	B1			G06K-009/20	

Iris pattern input device for acquiring image of iris pattern of human eye, converts light reflected by one way mirror to video signal

Abstract (Basic):

... A detachable capture camera (60) provided with one way mirror (62) is installed in the frame of display screen...  
... For acquiring image of iris pattern of human eye...

...The figure shows iris pattern input device...

... Camera (60

19/3,K/8 (Item 7 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

011685746 \*\*Image available\*\*  
WPI Acc No: 1998-102656/199810  
XRPX Acc No: N98-082320

Animal identifying device e.g. for identifying racehorses - has camera to photograph eye and body data capturer to obtain iris granule data, which is compared with preregistered data to identify animal

Patent Assignee: OKI ELECTRIC IND CO LTD (OKID )  
Inventor: KUNO Y; MORI T; TSUKADA M; YAMAKITA O  
Number of Countries: 007 Number of Patents: 006  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 821912	A2	19980204	EP 97100237	A	19970108	199810 B
JP 10040375	A	19980213	JP 96196397	A	19960725	199817
US 6081607	A	20000627	US 96772720	A	19961223	200036
JP 3436293	B2	20030811	JP 96196397	A	19960725	200354
EP 821912	B1	20030910	EP 97100237	A	19970108	200360
DE 69724713	E	20031016	DE 624713	A	19970108	200376
			EP 97100237	A	19970108	

Priority Applications (No Type Date): JP 96196397 A 19960725

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 821912	A2	E	30	A61B-005/117	
Designated States (Regional): DE FR GB IE IT					
JP 10040375	A		14	G06T-007/00	
US 6081607	A			G06K-009/00	
JP 3436293	B2		14	G06T-007/00	Previous Publ. patent JP 10040375
EP 821912	B1	E		A61B-005/117	
Designated States (Regional): DE FR GB IE IT					
DE 69724713	E			A61B-005/117	Based on patent EP 821912

... has camera to photograph eye and body data capturer to obtain iris granule data, which is compared with preregistered data to identify animal

...Abstract (Basic): The device (10) comprises a **camera** (11) for photographing an eye (2) of an animal (1), and a body data **capturer** (13) for **capturing** body data, including iris granule data, from an image generated by the **camera** . A registry (15) stores body data, including iris granule data, of registered animals. A body...

...collator (14) collates the body data stored in the body data registry and body data **captured** by the body data **capturer** to determine whether the photographed animal is a registered animal...

...Preferably, the body data **capturer** segments the iris and iris granules of the animal's eye into regions and extracts **characteristics** from the segmented **iris** and iris granule regions. The body data registry stores **characteristics** of **iris** regions and iris granule regions for several horses as registered body data...

...Title Terms: **CAMERA** ;

?

File 348:EUROPEAN PATENTS 1978-2004/Aug W02

(c) 2004 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20040812,UT=20040805

(c) 2004 WIPO/Univentio

Set	Items	Description
S1	100348	CAMERA? OR SCANNER??
S2	1042	(IRIS OR RETINA) (3N) (PRINT? ? OR MARK? ? OR DESIGN? ? OR GEOMETRY OR PATTERN? ? OR SIGNATURE? ? OR CHARACTERISTIC? OR ATTRIBUTE?)
S3	578	(IRIS OR RETINA OR EYE) () SCAN?
S4	13499	FINGERPRINT? OR FINGER() PRINT?
S5	2934	WATERMARK OR WATER() MARK?
S6	170	STEGANOGRAPHIC?
S7	7260	BIOMETRIC? OR USER(3N) ATTRIBUTE?
S8	2240	(INSERT? OR EMBED? OR ATTACH? OR ENCOD???? OR CODES OR CODING OR CODE?? OR ENCRYPT? OR INSERT? OR MERG? OR JOIN? OR INTEGRAT? OR ADD OR ADDED OR ADDING) (3N) (S2 OR S3 OR S4 OR S5 OR S6)
S9	240	(EYEPiece? OR EYE() PIECE?) (3N) CAMERA?
S10	654337	VIDEO OR FRAMES OR MULTIMEDIA OR MULTI() MEDIA OR IMAGE?? OR AUDIO OR MEDIA
S11	24294	IC=G06K?
S12	870	S8(10N) S10
S13	96	S12(5N) (STREAM? OR MOV?)
S14	6	S13 AND S11
S15	0	S9(10N) CAPTUR?(5N) (S2 OR S3)
S16	0	(INSERT? OR EMBED? OR ATTACH? OR ENCOD???? OR CODES OR CODING OR CODE?? OR ENCRYPT? OR INSERT? OR MERG? OR JOIN? OR INTEGRAT? OR ADD OR ADDED OR ADDING) (3N) (S2 OR S3) (5N) (VIDEO OR FRAME?? OR MEDIA(3N) SIGNAL??)
S17	7	(INSERT? OR EMBED? OR ATTACH? OR ENCOD???? OR CODES OR CODING OR CODE?? OR ENCRYPT? OR INSERT? OR MERG? OR JOIN? OR INTEGRAT? OR ADD OR ADDED OR ADDING) (3N) (S2 OR S3) (20N) (VIDEO OR FRAME?? OR MEDIA(3N) SIGNAL?? OR AUDIO)
S18	7	S17 NOT S14
S19	0	S9(S) (S2 OR S3)



14/3,K/1 (Item 1 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
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01129532 \*\*Image available\*\*

**WATERMARKING DIGITAL REPRESENTATIONS THAT HAVE UNDERGONE LOSSY COMPRESSION  
FILIGRANAGE DE REPRESENTATIONS NUMERIQUES AYANT SUBI UNE COMPRESSION AVEC  
PERTE**

Patent Applicant/Assignee:

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US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200451918 A1 20040617 (WO 0451918)  
Application: WO 2003US38151 20031126 (PCT/WO US03038151)  
Priority Application: US 2002429634 20021127

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AU BA BB BR BZ CA CN CO CR CU DM DZ EC GD GE HR HU ID IL IN IS  
JP KP KR LC LK LR LT LV MA MG MK MN MX NI NO NZ OM PG PH PL SC SG SY TN  
TT UA US UZ VC VN YU ZA  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE  
SI SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) BW GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 6759

International Patent Class: G06K-015/00 ...

... G06K-009/36 ...

... G06K-009/46

Fulltext Availability:

Detailed Description

Detailed Description

... digital representation and will then describe in detail how the  
technique may be used to **add a watermark** to an MPEG-1 **audio  
stream** .

Overview of the technique

With any kind of watermarking of digital representations, bits of  
watermark...

...masking coefficients and varies automatically with the quality and  
bitrate requirements for the compression process.

**Adding the watermark** to the compressed MPEG-1 **audio stream** . FIG.

FIG. 6 shows an arrangement 601 for adding watermarks whose bits are inserted...

14/3,K/2 (Item 2 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
(c) 2004 WIPO/Univentio. All rts. reserv.

01033948 \*\*Image available\*\*

**DIGITAL WATERMARKING AND FINGERPRINTING INCLUDING SYNCHRONIZATION,  
LAYERING, VERSION CONTROL, AND COMPRESSED EMBEDDING  
TATOUAGE ET DACTYLOSCOPIE NUMERISES COMPRENANT LA SYNCHRONISATION, LA  
STRUCTURE EN COUCHES, LE CONTROLE DE LA VERSION, ET L'INTEGRATION  
COMPRIMEE**

Patent Applicant/Assignee:

DIGIMARC CORPORATION, 19801 SW 72nd Avenue, Suite 100, Tualatin, OR 97062  
, US, US (Residence), US (Nationality), (For all designated states  
except: US)

Patent Applicant/Inventor:

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(Residence), US (Nationality), (Designated only for: US)

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Legal Representative:

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Suite 100, Tualatin, OR 97062, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200362960 A2-A3 20030731 (WO 0362960)

Application: WO 2003US1975 20030122 (PCT/WO US2003001975)

Priority Application: US 2002351565 20020122; US 2002404038 20020815; US  
2002428485 20021121

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SK  
SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT SE SI  
SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 14078

Main International Patent Class: G06K-009/00

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... demodulation operation on the DCT coefficients.

Another aspect of the invention is a method of **embedding** a digital **watermark** in a **video stream**. This method generates a digital watermark signal, and stores the digital watermark signal in a...video object layers are independently compressed and transmitted in digital data streams called elementary bit **streams**.

- 22

Within this **video** object layer framework, we developed a **video watermark**

**embedding** process to operate on MPEG-4 **video** content. In our system, an MPEG-4 system receiver separates an incoming digital data stream...

Claim

... correction coded message; and performing error correction decoding on the estimates.

75 A method of **embedding** a digital **watermark** in a **video stream** comprising:  
generating a

14/3,K/3 (Item 3 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00866335 \*\*Image available\*\*

**INTERACTIVE VIDEO AND WATERMARK ENABLED VIDEO OBJECTS**  
**VIDEO INTERACTIVE ET OBJETS VIDEO ACTIVES PAR FILIGRANE**

Patent Applicant/Assignee:

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, US, US (Residence), US (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

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Legal Representative:

MEYER Joel R (agent), Digimarc Corporation, Suite 100, 19801 SW 72nd Avenue, Tualatin, OR 97062, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200199325 A2-A3 20011227 (WO 0199325)

Application: WO 2001US19254 20010615 (PCT/WO US0119254)

Priority Application: US 2000597209 20000620; US 2000660756 20000913

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS  
LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ  
TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 16997

Main International Patent Class: G06K-009/00

Fulltext Availability:

Detailed Description

Detailed Description

... stream.

Fig. 5 is a diagram depicting yet another process for encoding auxiliary information about **video** objects in a **video stream**.

Fig. 6 depicts an example **watermark encoding** process.

Fig. 7 is a diagram depicting decoding processes for extracting watermark information from video...decoding side.

An example will help illustrate an encoding process to facilitate user selection of **video** objects on the decoding side. Consider an example where a **watermark encoder** encodes a short title (or number) and location of marked **video** objects into the **video stream** containing these objects. The decoding process can extract the title and location information, and display...

...process of Fig. 3, a video creation process composites watermarked video objects 300 with a **video stream** 302 to create a watermarked **video** sequence. The **watermark** may be encoded into **video** object layers. Examples of **watermark encoding** and decoding technology are described in US Patent 5,862,260, and in co-pending...In a partially automated implementation, the user may select one or more video objects in **frames** of the **video stream** to be associated with **embedded watermark** information via a **video** editing system 514. The **video** editing system may be implemented in computer software that buffers video frame data and associated...

...and corresponding screen location information may be encoded throughout the video frames (or in the **audio** track of an **audio** visual work).

After **watermark encoding**, a transmitter 518 transmits or broadcasts the **video stream** to viewers. The **video stream** may also be stored, or compressed and stored for later distribution, transmission or broadcast. The...

...on the implementation, some of the processing is optional or performed at different times. The **watermark encoding** process operates on a **video stream** 600. In some cases the stream is compressed, segmented into video object layers, or both...each potentially including a different watermark or watermark payload linking video objects in the corresponding **video stream** to actions or information. In this case, a **watermark** is **embedded** in the **video** captured from a camera that focuses on a particular character, player, or object. In a...

14/3,K/4 (Item 4 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00818668 \*\*Image available\*\*

AUTHENTICATING METADATA AND EMBEDDING METADATA IN WATERMARKS OF MEDIA SIGNALS

AUTHENTIFICATION DE METADONNEES ET INCORPORATION DE METADONNEES DANS DES FILIGRANES DANS DES SIGNAUX MEDIA

Patent Applicant/Assignee:

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Legal Representative:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200152178 A1 20010719 (WO 0152178)  
Application: WO 2001US1043 20010111 (PCT/WO US0101043)  
Priority Application: US 2000482786 20000113; US 2000507096 20000217; US  
2000198857 20000421

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE  
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT  
LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM  
TR TT TZ UA UG US UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 13747

Main International Patent Class: G06K-009/00

Fulltext Availability:

Detailed Description

Detailed Description

... camera, metadata may be configured and maintained on an external  
device, and referenced to the **image** via a reference **encoded** into a  
**watermark** in the **image**. Conversely, the uploading process may **move**  
data associated with an image from the camera, store it in a metadata  
database, and...

14/3,K/5 (Item 5 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00549763 \*\*Image available\*\*

**WATERMARKING SYSTEM AND METHODOLOGY FOR DIGITAL MULTIMEDIA CONTENT**  
**SYSTEME DE FORMATION DE FILIGRANE ET METHODOLOGIE DESTINEE A UN CONTENU**  
**MULTIMEDIA NUMERIQUE**

Patent Applicant/Assignee:

DIGITAL VIDEO EXPRESS L P,  
IU Siu-Leong,  
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LUO Hui,  
LIN Yun-Ting,  
MERCIER Guillaume,  
BUGWADIA Kobad,

Inventor(s):

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DAVIS Malcom,  
LUO Hui,  
LIN Yun-Ting,  
MERCIER Guillaume,  
BUGWADIA Kobad,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200013136 A1 20000309 (WO 0013136)  
Application: WO 99US19723 19990831 (PCT/WO US9919723)  
Priority Application: US 9898687 19980831

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK EE ES FI GB GD  
GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG  
MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ  
VN YU ZA ZW GH GM KE LS MW SD SL SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT  
BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA  
GN GW ML MR NE SN TD TG,

Publication Language: English

Fulltext Word Count: 24626

Main International Patent Class: G06K-009/62

Fulltext Availability:

Detailed Description

Detailed Description

... analog output that is applied to a television or a monitor, in the case of **video** content, or to another reproduction device. **Watermark** data are **inserted** into the data **stream** and becomes part of the output of the terminal, such that any reproduction of the...6 and 7 depict, respectively, a system for inserting a watermark into and extracting the **water mark** from the **encrypted** and compressed **video stream**, including warping and reregistration.

In Fig. 6, the original message B,,, obtained from a DVD...

14/3,K/6 (Item 6 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00479485 \*\*Image available\*\*

**METHOD AND APPARATUS FOR WATERMARKING VIDEO IMAGES**

**PROCEDE ET DISPOSITIF PERMETTANT DE FILIGRANER DES IMAGES VIDEO**

Patent Applicant/Assignee:

DIGIMARC CORPORATION,

Inventor(s):

RHOADS Geoffrey B,  
DAVIDSON Clay,  
RODRIGUEZ Anthony,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9910837 A1 19990304  
Application: WO 98US17530 19980824 (PCT/WO US9817530)  
Priority Application: US 9756968 19970826; US 98138061 19980821

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AU CA FI JP MX AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Fulltext Word Count: 4880

Main International Patent Class: **G06K-009/36**

International Patent Class: **G06K-009/46**

Fulltext Availability:

Detailed Description

Detailed Description

... that can be recorded on a single disk. It is known 3 that, in general,  
    **adding** a **watermark** to a **stream** of **images** will increase the  
    number of bits in the bit stream. The present invention provides a...

?

18/3,K/1 (Item 1 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

01205863

Initiating a link between computers based on the decoding of an address  
steganographically embedded in an audio object

Verbindungsherstellung zwischen Computern beruhend auf der Dekodierung  
einer steganographisch in einem Audioobjekt eingebetteten Adresse

Initialisation d'une liaison entre ordinateurs basee sur le decodage d'une  
adresse enrobee steganographiquement dans un objet audio.

PATENT ASSIGNEE:

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INVENTOR:

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LEGAL REPRESENTATIVE:

Meddle, Alan Leonard (33761), FORRESTER & BOEHMERT, Pettenkoferstrasse  
20-22, 80336 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1049320 A1 001102 (Basic)  
EP 1049320 A8 010502  
EP 1049320 B1 030102

APPLICATION (CC, No, Date): EP 2000116604 960507;

PRIORITY (CC, No, Date): US 436102 950508; US 508083 950727; US 512993  
950809; US 534005 950925; US 637531 960425

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU;  
MC; NL; PT; SE

RELATED PARENT NUMBER(S) - PN (AN):

EP 824821 (EP 96917808)

INTERNATIONAL PATENT CLASS: H04N-001/32

ABSTRACT WORD COUNT: 69

NOTE:

Figure number on first page: 27

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200044	548
CLAIMS B	(English)	200301	492
CLAIMS B	(German)	200301	466
CLAIMS B	(French)	200301	557
SPEC A	(English)	200044	55094
SPEC B	(English)	200301	104797

Total word count - document A 55650

Total word count - document B 106312

Total word count - documents A + B 161962

...SPECIFICATION certainty and to index exact sale and distribution  
information.

The amplitude or power of this **added** signal is determined by the  
aesthetic and informational considerations of each and every application  
using the present methodology. For instance, non-professional **video** can  
stand to have a higher **embedded** signal level without becoming  
noticeable to the average human **eye**, while high precision **audio** may  
only be able to accept a relatively small signal level lest the human ear  
...

18/3,K/2 (Item 1 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT



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01111283      \*\*Image available\*\*

**SECURITY SYSTEM AND PROCESS FOR MONITORING AND CONTROLLING THE MOVEMENT OF PEOPLE AND GOODS**

**SYSTEME DE SECURITE ET PROCEDE DE SURVEILLANCE ET DE CONTROLE DU DEPLACEMENT DES PERSONNES ET DES MARCHANDISES**

Patent Applicant/Inventor:

NEMES Geza, Desi Huber u.2., H-1098 Budapest, HU, HU (Residence), HU  
(Nationality)

Patent and Priority Information (Country, Number, Date):

Patent: WO 200434347 A1 20040422 (WO 0434347)

Application: WO 2002IB4188 20021011 (PCT/WO IB02004188)

Priority Application: WO 2002IB4188 20021011

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT (utility model) AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR  
CU CZ (utility model) CZ DE (utility model) DE DK (utility model) DK DM  
DU EC EE (utility model) EE ES FI (utility model) FI GB GD GE GH GM HR HU  
ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX  
MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK (utility model) SK SL TJ TM TN  
TR TT TZ UA UG US UZ VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 5923

Fulltext Availability:

Detailed Description

Detailed Description

... forged identity devices. These drawbacks can be partially addressed by the addition of personal access **codes** , passwords or biometrical identification (finger or palmprint, face-recognition, **iris** -recognition, voice **print** , etc.) which can help binding the identifying device to its holder.

**Video** Surveillance is another widely used security tool. The combination of access control systems with continuous...

**18/3,K/3      (Item 2 from file: 349)**

DIALOG(R)File 349:PCT FULLTEXT

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01063923      \*\*Image available\*\*

**SYSTEM, METHOD AND PORTABLE DEVICE FOR BIOMETRIC IDENTIFICATION**

**SYSTEME, METHODE ET DISPOSITIF PORTATIF POUR IDENTIFICATION BIOMETRIQUE**

Patent Applicant/Assignee:

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Inventor(s):

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200394100 A1 20031113 (WO 0394100)  
Application: WO 2003US11431 20030411 (PCT/WO US0311431)  
Priority Application: US 2002135780 20020430

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PH PL PT RO RU SC SD SE  
SG SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE  
SI SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 4936

Fulltext Availability:

Detailed Description

Detailed Description

... organizational affiliations. Additionally, such information as visa and passport expiration dates may be associated to **iris pattern code**

[00101 One aspect of the invention is a miniature camera installed into a portable communications device that allows for (1) **video** -conferencing, and (2) personal identification through biometric features, e.g. **iris scan** , facial bone structure physiognomy, to allow secure access to confidential databases and transaction capabilities, e...

...may be connected into a point of sale system. The first camera is used for **video** conferencing. The second camera is used for iris recognition. The **iris** camera captures the **pattern** of the **iris** . The captured image is processed into an iris pattern **code** . The **code** is checked against a pre-stored code to authenticate the user. The first camera has ...

...a smart card reader. The computer keyboard may utilize a combination camera that provides for **video** conferencing and iris recognition. The keyboard is **attached** to a computer which processes the **iris pattern** of the eye.

[00161 Another aspect of the invention is a computer monitor or display ...

18/3,K/4 (Item 3 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00989452 \*\*Image available\*\*

CARDHOLDER TRANSACTION CONTROL METHODS, APPARATUS, SIGNALS AND MEDIA  
PROCEDES, DISPOSITIFS, SIGNAUX ET SUPPORTS POUR LE CONTROLE DE TRANSACTION  
DE DETENTEUR DE CARTE

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200319484 A2-A3 20030306 (WO 0319484)  
Application: WO 2002CA1339 20020830 (PCT/WO CA0201339)  
Priority Application: US 2001943003 20010831

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI  
SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 8974

Fulltext Availability:

Detailed Description

Detailed Description

... the adjudicator.

The method may further involve reading, from a computer readable medium,  
an identification **code** identifying the adjudicator, and/or producing a  
representation of a fingerprint, a signature, an **audio** or an **iris**  
**signature** of the  
adjudicator and comparing the representation to a reference fingerprint,  
**signature** , **audio** , and/or **iris signature** to determine the identity  
of the  
adjudicator. This may alternatively or in addition involve receiving a  
key **code** from a key sensor operable to sense a key associated with the  
adjudicator.

Authorizing may...sensing an identity of the adjudicator. The sensor  
may be operable to receive an identification **code** associated with the  
adjudicator, to read the identification **code** from a computer readable  
medium, and/or to produce a representation of a fingerprint, a **signature**  
, an **audio** or **iris signature** of the adjudicator. The identification  
interface may be operable to compare the fingerprint, **signature** , **audio**  
or **iris signature** representation with a reference fingerprint,  
**signature** , **audio** or **iris signature** representation to  
determine the identity of the adjudicator. The sensor may be operable to  
produce a key **code** in response to sensing a

00909145      \*\*Image available\*\*

**PLANAR LASER ILLUMINATION AND IMAGING (PLIIM) SYSTEMS WITH INTEGRATED  
DESPECKLING MECHANISMS PROVIDED THEREIN  
SYSTEMES PLIIM D'ILLUMINATION ET D'IMAGERIE AU LASER PLANAIRE A MECANISME  
DE DECHATOIEMENT INTEGRE**

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Patent and Priority Information (Country, Number, Date):  
Patent: WO 200243195 A2-A3 20020530 (WO 0243195)  
Application: WO 2001US44011 20011121 (PCT/WO US0144011)  
Priority Application: US 2000721885 20001124; US 2001780027 20010209; US  
2001781665 20010212; US 2001883130 20010615; US 2001954477 20010917; US  
2001999687 20011031  
Parent Application/Grant:  
Related by Continuation to: US 2001954477 20010917 (CIP)  
Designated States:  
(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)  
AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL  
TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM  
Publication Language: English  
Filing Language: English  
Fulltext Word Count: 298301

Fulltext Availability:  
Claims

#### Claim

... produced at the image detection array are temporally (and possibly  
spatially) averaged during the photo- **integration** time period thereof,  
thereby reducing the RMS power of speckle-noise **patterns** observed at  
the image detection array. As shown in Fig. II4C, an array support **frame**  
316 with a light transmission window 317 and recesses 318A and 318B is  
used to...

18/3,K/6 (Item 5 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00857333 \*\*Image available\*\*

**METHOD AND SYSTEM FOR COLLECTION AND VERIFICATION OF DATA FROM PLURAL SITES**  
**PROCEDE ET SYSTEME DE COLLECTE ET DE VERIFICATION DE DONNEES ISSUES DE**  
**PLUSIEURS SITES**

Patent Applicant/Assignee:

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Legal Representative:

NICHOLLS Michael John (et al) (agent), J.A. Kemp & Co., Gray's Inn, 14

South Square, London WC1R 5JJ, GB,  
Patent and Priority Information (Country, Number, Date):  
Patent: WO 200191025 A1 20011129 (WO 0191025)  
Application: WO 2001GB2252 20010521 (PCT/WO GB0102252)  
Priority Application: GB 200012840 20000525  
Designated States:  
(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)  
AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS  
LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ  
TM TR TT TZ UA UG US UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM  
Publication Language: English  
Filing Language: English  
Fulltext Word Count: 7673

Fulltext Availability:  
Detailed Description

Detailed Description  
... extensible lead 22 in support bag 13. Biometric security is provided  
by the fingerprint or **iris scanner** 2' ).  
Facilities for the recording and playback of **audio** data are provided by  
**audio** headset 25 and for the recording of **video** data by **video**  
camera or digital camera 27.

Further, to provide close **integration** of physical items such as other  
paper forms printouts or samples, a bar code printer...

18/3,K/7 (Item 6 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00737987 \*\*Image available\*\*

**GLOBALLY TIME-SYNCHRONIZED SYSTEMS, DEVICES AND METHODS**  
**SYSTEMES GLOBALEMENT SYNCHRONISES DANS LE TEMPS**

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Stamford, CT 06902, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200050974 A2-A3 20000831 (WO 0050974)

Application: WO 2000US5093 20000228 (PCT/WO US0005093)

Priority Application: US 99258573 19990226; US 2000513601 20000225

Parent Application/Grant:

Related by Continuation to: US Not furnished (CIP)

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB  
GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA  
MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA  
UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 80968

Fulltext Availability:

Claims

Claim

... the group consisting of water level sensors, burglar alarms, police radar devices, still image cameras, **video** cameras, microphones, and chemical sensors, bar- **code** readers, document scanners, fingerprint readers, **iris - scanners** , vehicle counters, and optical sensors for race finish lines.

6 The GSUof claim 1, which...the group consisting of water level sensors, burglar alarms, police radar devices, still image cameras, **video** cameras, microphones, and chemical sensors, bar- **code** readers, document scanners, fingerprint readers, **iris - scanners** , vehicle counters, and optical sensors for race finish lines.

1 6. The GSU of claim...

...the group consisting of water level sensors, burglar alarms, police radar devices, still image cameras, **video** cameras, microphones, and chemical sensors, bar- **code** readers, document scanners, fingerprint readers, **iris - scanners** , vehicle counters, and optical sensors for race finish lines.

2 3. The GSUof claim 18...the group consisting of water level sensors, burglar alarms, police radar devices, still image cameras, **video** cameras, microphones, and chemical sensors, bar- **code** readers, document scanners, fingerprint readers, **iris - scanners** , vehicle counters, and optical sensors for race finish lines.

5 0. A global synchronization unit...said data input device is selected from the group

Page 165 of 238

image cameras, **video** cameras, microphones, and chemical sensors, bar- **code** readers, document scanners, fingerprint readers, **iris - scanners** , vehicle counters, and optical sensors for race finish lines.

7 8. The GSUof claim 64...

?

File 9:Business & Industry(R) Jul/1994-2004/Aug 16  
     (c) 2004 The Gale Group  
 File 15:ABI/Inform(R) 1971-2004/Aug 16  
     (c) 2004 ProQuest Info&Learning  
 File 16:Gale Group PROMT(R) 1990-2004/Aug 17  
     (c) 2004 The Gale Group  
 File 20:Dialog Global Reporter 1997-2004/Aug 17  
     (c) 2004 The Dialog Corp.  
 File 47:Gale Group Magazine DB(TM) 1959-2004/Aug 17  
     (c) 2004 The Gale group  
 File 75:TGG Management Contents(R) 86-2004/Aug W2  
     (c) 2004 The Gale Group  
 File 80:TGG Aerospace/Def.Mkts(R) 1986-2004/Aug 17  
     (c) 2004 The Gale Group  
 File 88:Gale Group Business A.R.T.S. 1976-2004/Aug 16  
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 File 98:General Sci Abs/Full-Text 1984-2004/Jul  
     (c) 2004 The HW Wilson Co.  
 File 112:UBM Industry News 1998-2004/Jan 27  
     (c) 2004 United Business Media  
 File 141:Readers Guide 1983-2004/Jul  
     (c) 2004 The HW Wilson Co  
 File 148:Gale Group Trade & Industry DB 1976-2004/Aug 17  
     (c)2004 The Gale Group  
 File 160:Gale Group PROMT(R) 1972-1989  
     (c) 1999 The Gale Group  
 File 275:Gale Group Computer DB(TM) 1983-2004/Aug 17  
     (c) 2004 The Gale Group  
 File 264:DIALOG Defense Newsletters 1989-2004/Aug 16  
     (c) 2004 The Dialog Corp.  
 File 484:Periodical Abs Plustext 1986-2004/Aug W1  
     (c) 2004 ProQuest  
 File 369:New Scientist 1994-2004/Aug W2  
     (c) 2004 Reed Business Information Ltd.  
 File 370:Science 1996-1999/Jul W3  
     (c) 1999 AAAS  
 File 553:Wilson Bus. Abs. FullText 1982-2004/Jul  
     (c) 2004 The HW Wilson Co  
 File 570:Gale Group MARS(R) 1984-2004/Aug 17  
     (c) 2004 The Gale Group  
 File 608:KR/T Bus.News. 1992-2004/Aug 17  
     (c)2004 Knight Ridder/Tribune Bus News  
 File 620:EIU:Viewswire 2004/Aug 16  
     (c) 2004 Economist Intelligence Unit  
 File 613:PR Newswire 1999-2004/Aug 17  
     (c) 2004 PR Newswire Association Inc  
 File 621:Gale Group New Prod.Annou.(R) 1985-2004/Aug 17  
     (c) 2004 The Gale Group  
 File 623:Business Week 1985-2004/Aug 16  
     (c) 2004 The McGraw-Hill Companies Inc  
 File 624:McGraw-Hill Publications 1985-2004/Aug 16  
     (c) 2004 McGraw-Hill Co. Inc  
 File 634:San Jose Mercury Jun 1985-2004/Aug 16  
     (c) 2004 San Jose Mercury News  
 File 635:Business Dateline(R) 1985-2004/Aug 14  
     (c) 2004 ProQuest Info&Learning  
 File 636:Gale Group Newsletter DB(TM) 1987-2004/Aug 17  
     (c) 2004 The Gale Group  
 File 647:CMP Computer Fulltext 1988-2004/Aug W2  
     (c) 2004 CMP Media, LLC  
 File 696:DIALOG Telecom. Newsletters 1995-2004/Aug 17



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 File 674:Computer News Fulltext 1989-2004/Jul W4  
 (c) 2004 IDG Communications  
 File 810:Business Wire 1986-1999/Feb 28  
 (c) 1999 Business Wire  
 File 813:PR Newswire 1987-1999/Apr 30  
 (c) 1999 PR Newswire Association Inc  
 File 587:Jane's Defense&Aerospace 2004/Jul W4  
 (c) 2004 Jane's Information Group

Set	Items	Description
S1	1333392	CAMERA? OR SCANNER??
S2	5180	(IRIS OR RETINA) (3N) (PRINT? ? OR MARK? ? OR DESIGN? ? OR GEOMETRY OR PATTERN? ? OR SIGNATURE? ? OR CHARACTERISTIC? OR ATTRIBUTE?)
S3	6007	(IRIS OR RETINA OR EYE) () SCAN?
S4	121761	FINGERPRINT? OR FINGER() PRINT?
S5	41687	WATERMARK OR WATER() MARK?
S6	190	STEGANOGRAPHIC?
S7	77526	BIOMETRIC? OR USER(3N) ATTRIBUTE?
S8	8503	(INSERT? OR EMBED? OR ATTACH? OR ENCOD???? OR CODES OR CODING OR CODE?? OR ENCRYPT? OR INSERT? OR MERG? OR JOIN? OR INTEGRAT? OR ADD OR ADDED OR ADDING) (3N) (S2 OR S3 OR S4 OR S5 OR S6)
S9	408	(EYEPiece? OR EYE() PIECE?) (3N) CAMERA?
S10	13522434	VIDEO OR FRAMES OR MULTIMEDIA OR MULTI() MEDIA OR IMAGE?? OR AUDIO OR MEDIA
S11	5	AU=(ELLINGSON, E? OR ELLINGSON E?)
S12	3758	DIGIMARC
S13	1993	S8(S) S10
S14	1285	S8(10N) S10
S15	91	S14(S) (STREAM? OR MOV?)
S16	38	S14(5N) (STREAM? OR MOV?)
S17	24	S16 AND PY=2001:2004
S18	14	S16 NOT S17
S19	8	RD S18 (unique items)
S20	0	S9(S) (S2 OR S3)
S21	34	(INSERT? OR EMBED? OR ATTACH? OR ENCOD???? OR CODES OR CODING OR CODE?? OR ENCRYPT? OR INSERT? OR MERG? OR JOIN? OR INTEGRAT? OR ADD OR ADDED OR ADDING) (3N) (S2 OR S3) (5N) S10
S22	34	S21 NOT S19
S23	3	S22 AND PY=2001:2004
S24	31	S22 NOT S23
S25	13	RD S24 (unique items)
S26	7	S12(S) S15
S27	5	S26 NOT (S19 OR S22)
S28	2	RD S27 (unique items)
S29	0	S11(S) S1:S7

19/3,K/1 (Item 1 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
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1871941 Supplier Number: 01871941 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Digital Watermark To Prevent Online Image Piracy**  
**(Playboy Enterprises to use Digimarc's digital watermarking products and services to aid it in preventing image piracy online)**  
Newsbytes News Network, p N/A  
June 30, 1997  
DOCUMENT TYPE: Journal ISSN: 0983-1592 (United States)  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 461

(USE FORMAT 7 OR 9 FOR FULLTEXT)

ABSTRACT:

...and Pamela Anderson, both of whom have parlayed their rabbit ears into television and/or **movie** careers. The digital **watermark** will be randomly **embedded** into select Playboy copyrighted **images**, allowing Playboy to track authorized and unauthorized use of Playboy images on the Web, without ...

TEXT:

...and Pamela Anderson, both of whom have parlayed their rabbit ears into television and/or **movie** careers. The digital **watermark** will be randomly **embedded** into select Playboy copyrighted **images**, allowing Playboy to track authorized and unauthorized use of Playboy images on the Web, without ...

19/3,K/2 (Item 1 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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01898158 05-49150  
**Pirates on the airwaves**  
DeCarmo, Linden  
E Media v12n9 PP: 50-56 Sep 1999  
ISSN: 1525-4658 JRNL CODE: LDP  
WORD COUNT: 3002

...TEXT: or more of the following digital audio characteristics: filters, frequency, amplitude, and time.

Since digital **audio streams** are normally filtered to remove quantization errors, an **audio watermark** theoretically can be **inserted** during filtering without affecting sound quality. For example, a filter may monitor the audio stream...

19/3,K/3 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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05112511 Supplier Number: 47805573 (USE FORMAT 7 FOR FULLTEXT)  
**PLAYBOY ON PROWL FOR PLAYMATE PIX PIRACY**  
Media Daily, v4, n5, pN/A  
July 1, 1997  
Language: English Record Type: Fulltext

Document Type: Newsletter; Trade  
Word Count: 188

An imperceptible digital **watermark** will be **embedded** into Playboy's **images** , allowing the company to track **movement** of its photos and other visual matter. The technology will be used on its main...

19/3,K/4 (Item 2 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)  
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05108919 Supplier Number: 47500307 (USE FORMAT 7 FOR FULLTEXT)

**Digital Watermark To Prevent Online Image Piracy 06/30/97**

Paulson, Linda Dailey

Newsbytes, pN/A

June 30, 1997

Language: English Record Type: Fulltext

Document Type: Newswire; General Trade

Word Count: 471

... and Pamela Anderson, both of whom have parlayed their rabbit ears into television and/or **movie** careers.

The digital **watermark** will be randomly **embedded** into select Playboy copyrighted **images** , allowing Playboy to track authorized and unauthorized use of Playboy images on the Web, without...

19/3,K/5 (Item 1 from file: 88)

DIALOG(R)File 88:Gale Group Business A.R.T.S.

(c) 2004 The Gale Group. All rts. reserv.

05392087 SUPPLIER NUMBER: 61617621

**On Random Coding Error Exponents of Watermarking Systems.**

Merhav, Neri

IEEE Transactions on Information Theory, 46, 2, 420

March, 2000

ISSN: 0018-9448 LANGUAGE: English RECORD TYPE: Abstract

...AUTHOR ABSTRACT: as a game between an information hider and an active attacker. While the information hider **embeds** a secret message ( **watermark** ) in a covertext message (typically: text, **image** , sound, or **video stream** ) within a certain distortion level, the attacker processes the resulting watermarked message, within limited additional...

19/3,K/6 (Item 2 from file: 88)

DIALOG(R)File 88:Gale Group Business A.R.T.S.

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04937707 SUPPLIER NUMBER: 21222978

**Digital watermarking for copyright protection of MPEG2 compressed video.**

(Moving Picture Expert Group audio standard)

Chung, Tae-Yun; Hong, Min-Suk; Oh, Young-Nam; Shin, Dong-Ho; Park, Sang-Hui

IEEE Transactions on Consumer Electronics, v44, n3, p895(7)

August, 1998

ISSN: 0098-3063 LANGUAGE: English RECORD TYPE: Abstract

...AUTHOR ABSTRACT: strength and area of embedding with respect to the global and local characteristics of the **video** sequences. And this

technique can also directly extract the **embedded watermark** from the watermarked MPEG2 compressed **video stream** without using original **video** sequences. Simulation results show that the proposed scheme is robust to various attacks to remove...

19/3,K/7 (Item 1 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

08836889 SUPPLIER NUMBER: 18527179 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
Vosaic's Web protocol streams video, audio. (Vosaic Corp's Video Datagram Protocol to allow video files to be played while they are being downloaded) (Company Business and Marketing) (Brief Article)  
Staten, James; Ryer, Kelly  
MacWEEK, v10, n29, p14(2)  
July 29, 1996  
DOCUMENT TYPE: Brief Article ISSN: 0892-8118 LANGUAGE: English  
RECORD TYPE: Fulltext  
WORD COUNT: 313 LINE COUNT: 00028

... or video files  
Vosaic said it is also working on an encryption system for MPEG **video streams** that will stamp **encoded video** with a **watermark** or registration number. Encryption will occur in real time, allowing secure videoconferencing.  
Vosaic Corp. of...

19/3,K/8 (Item 1 from file: 696)  
DIALOG(R)File 696:DIALOG Telecom. Newsletters  
(c) 2004 The Dialog Corp. All rts. reserv.

00617457  
MACROVISION TEAMS UP WITH PHILIPS, DIGIMARC ON WATERMARK PROPOSAL  
DVD REPORT  
August 3, 1998 VOL: 3 ISSUE: 23 DOCUMENT TYPE: NEWSLETTER  
PUBLISHER: PHILLIPS BUSINESS INFORMATION  
LANGUAGE: ENGLISH WORD COUNT: 253 RECORD TYPE: FULLTEXT

(c) PHILLIPS PUBLISHING INTERNATIONAL All Rts. Reserv.

TEXT:  
...to the human eye but can be detected by the appropriate hardware or software. The **watermark** can be **embedded** into a **video stream** at different levels of robustness, and is said to withstand multiple generations of video processing...  
?

25/3,K/1 (Item 1 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2004 The Gale Group. All rts. reserv.

2045030 Supplier Number: 02045030 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Oki Begins Iris Identification Real World Trials**  
(Oki Electric Industry Co Ltd has begun commercial trials of its new  
iris-based access identification system)  
Newsbytes News Network, p N/A  
January 19, 1998  
DOCUMENT TYPE: Journal ISSN: 0983-1592 (United States)  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 254

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...membrane of the eye, and includes a pattern that is unique to everyone.

Once the **image** is taken, the **iris pattern** is digitally **encoded** into an iris code. The code is stored in a central database, cross-checked every ...

25/3,K/2 (Item 1 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2004 ProQuest Info&Learning. All rts. reserv.

02518573 116355888  
**Body language, security and e-commerce**  
Desmarais, Norman  
Library Hi Tech v18n1 PP: 61-74 2000  
ISSN: 0737-8831 JRNL CODE: LIHT  
WORD COUNT: 8481

...TEXT: e-commerce age consisting of a digital certificate (more on this later) combined with a **coded image** of a person's iris. While **eye scanning** is the most expensive and most accurate biometric, behavioral biometrics cost the least to implement...

25/3,K/3 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2004 The Gale Group. All rts. reserv.

07402413 Supplier Number: 62285472 (USE FORMAT 7 FOR FULLTEXT)  
**Tech Scene: Biometric ID Needs Careful Customer Sell.**  
Bloom, Jennifer Kingson  
American Banker, v165, n100, p1  
May 24, 2000  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 1282

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...while a video is taken of the eye. (Other customers can sign up too.) The **video** is converted to a bar **code** based on the **iris characteristics**, and the bar code is loaded into a database. After that, the customer can touch...

25/3,K/4 (Item 2 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2004 The Gale Group. All rts. reserv.

07293067 Supplier Number: 61858355 (USE FORMAT 7 FOR FULLTEXT)  
**IriScan(R) Technology to be Demonstrated at Card Tech/Secur Tech In Miami  
May 2nd Through May 4th.**  
PR Newswire, pNA  
May 1, 2000  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 437

... product will also be on display. Using an auto-focus camera,  
IrisAccess captures the iris **image**, then digitizes and **encodes** the  
**iris pattern**, creating a 512-byte encrypted iriscode(TM). The code is  
compared with all other records...

25/3,K/5 (Item 3 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2004 The Gale Group. All rts. reserv.

07285930 Supplier Number: 61804382 (USE FORMAT 7 FOR FULLTEXT)  
**Never Look at Identification the Same Way Again IriScan(R) Technology to be  
Demonstrated at FOSE.**  
PR Newswire, pNA  
April 13, 2000  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 418

... product will also be on display. Using an auto-focus camera,  
IrisAccess captures the iris **image**, then digitizes and **encodes** the  
**iris pattern**, creating a 512-byte encrypted iriscode(TM). The code is  
compared with all other records...

25/3,K/6 (Item 4 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2004 The Gale Group. All rts. reserv.

05970630 Supplier Number: 53260935 (USE FORMAT 7 FOR FULLTEXT)  
**LG Video Captures Iris Image.(biometric technology) (Industry Trend or  
Event)**  
Electronic News (1991), p51(1)  
Nov 23, 1998  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 601

(USE FORMAT 7 FOR FULLTEXT)  
TEXT:  
LG's IRIS product (Iris Recognition for **Integrated** Security System) uses  
a **video** camera to capture an **iris image**. The **iris pattern** is then  
extracted via multi-wavelength IR LEDs, and **encoded**. The algorithm of the  
iris recognition process analyzes patterns within each circular grid and  
transforms...

25/3,K/7 (Item 5 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2004 The Gale Group. All rts. reserv.

05431359 Supplier Number: 48236682 (USE FORMAT 7 FOR FULLTEXT)  
**Oki Begins Iris Identification Real World Trials 01/19/98**  
Newsbytes, pN/A  
Jan 19, 1998  
Language: English Record Type: Fulltext  
Document Type: Newswire; General Trade  
Word Count: 263

... membrane of the eye, and includes a pattern that is unique to everyone.

Once the **image** is taken, the **iris pattern** is digitally **encoded** into an iris code. The code is stored in a central database, cross-checked every...

25/3,K/8 (Item 6 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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04514250 Supplier Number: 46631127 (USE FORMAT 7 FOR FULLTEXT)  
**New Longevity Inks from IRIS Graphics**  
News Release, pN/A  
August 15, 1996  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 547

(USE FORMAT 7 FOR FULLTEXT)  
TEXT:  
...UV susceptibility, and protect against moisture, smudging, and fingerprints. All of those features combine to **add** life-span and **image** quality to **IRIS Giclee prints**."

25/3,K/9 (Item 1 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2004 The Dialog Corp. All rts. reserv.

11173251 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Tech Scene: Biometric ID Needs Careful Customer Sell**  
AMERICAN BANKER, p1  
May 24, 2000  
JOURNAL CODE: WAMB LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 1271

(USE FORMAT 7 OR 9 FOR FULLTEXT)  
... while a video is taken of the eye. (Other customers can sign up too.)  
The **video** is converted to a **bar code** based on the **iris characteristics**, and the bar code is loaded into a database. After that, the customer can touch...

25/3,K/10 (Item 1 from file: 47)  
DIALOG(R)File 47:Gale Group Magazine DB(TM)  
(c) 2004 The Gale group. All rts. reserv.

05170757 SUPPLIER NUMBER: 20504878 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Private eyes: biometric identification is set to replace passwords and PINs.**

Wu, Corinna  
Science News, v153, n14, p216(2)  
April 4, 1998  
ISSN: 0036-8423 LANGUAGE: English RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 2087 LINE COUNT: 00169

... University in England to develop iris identification software. Their system separates a black-and-white **image** of the **iris** into a **pattern** and converts it into a mathematical **code**. The system then compares the code to a stored one and decides whether they match...

25/3,K/11 (Item 1 from file: 88)  
DIALOG(R)File 88:Gale Group Business A.R.T.S.  
(c) 2004 The Gale Group. All rts. reserv.

05331985 SUPPLIER NUMBER: 59696976  
**An iris biometric system for public and personal use.**  
Negin, Michael; Chmielwski, Thomas A., Jr.; Salganicoff, Marcos; Camus, Theodore A.; Cahn von Seelen, Ulf M.; Zhang, Guanghua G.  
Computer, 33, 2, 70(6)  
Feb, 2000  
ISSN: 0018-9162 LANGUAGE: English RECORD TYPE: Abstract

...ABSTRACT: an iris biometric system for both public and private use. The system captures a digital **image** of one eye, **encodes** its **iris pattern** and matches it against an individual's entry in a database. Field trials show that...

25/3,K/12 (Item 2 from file: 88)  
DIALOG(R)File 88:Gale Group Business A.R.T.S.  
(c) 2004 The Gale Group. All rts. reserv.

04709758 SUPPLIER NUMBER: 20508233  
**Iris eyes are smiling. (iris scanning technology)**  
Dyer, Adele  
Personal Computer World, v21, n5, p277(1)  
May, 1998  
ISSN: 0142-0232 LANGUAGE: English RECORD TYPE: Abstract

...ABSTRACT: 250 characteristics which are unique to the individual. The iris image, taken using a monochrome **video** camera, is used to create a unique IrisCode **code**. **Iris scanning** systems are being tested across the country in Nationwide building society trials.

25/3,K/13 (Item 1 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

13087803 SUPPLIER NUMBER: 68660804 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Iris recognition software. (IriScan Inc.) (Brief Article)**



Security Management, 44, 12, 132  
Dec, 2000

DOCUMENT TYPE: Brief Article ISSN: 0145-9406 LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 63 LINE COUNT: 00008

TEXT:

...company's physical access control product. Using an auto-focus camera, the system captures an **image** of the iris, then digitizes and **encodes** the **iris pattern** for comparison with the database. The process takes less than three seconds, and it is...  
?

28/3,K/1 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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04554411 Supplier Number: 46694069 (USE FORMAT 7 FOR FULLTEXT)  
**ADOBE ROLLS OUT WEB-ENABLED PAGEMAKER 6.5 AND PHOTOSHOP 4.0 RELEASES FOR  
APPLE MACINTOSH AND WINDOWS95**  
Computergram International, n2994, pN/A  
Sept 9, 1996  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 690

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...use of desktop systems over the last two years within its customer base, namely: a **move** to high-end desktop publishing that demands more colour and higher resolution graphics, the rise...

...in particular. Both tools have undergone what Carolyn Radcliff, European product manager coined "Adobeisation," the **streamlining** of new releases of Adobe products - especially those inherited from acquisitions, of which PageMaker is...

...provided through a technology known as digital watermarking. Using Imagemarc software from Portland, Oregon-based **Digimarc** Corp, PhotoShop **embeds** a digital **watermark** into an **image**, which is not visible to the human eye, but remains readable even after the image...

28/3,K/2 (Item 1 from file: 696)  
DIALOG(R)File 696:DIALOG Telecom. Newsletters  
(c) 2004 The Dialog Corp. All rts. reserv.

00655930  
**HITACHI, PIONEER, SONY JOIN IBM, NEC ON WATERMARKING PROPOSAL**  
DVD REPORT  
February 22, 1999 VOL: 4 ISSUE: 8 DOCUMENT TYPE: NEWSLETTER  
PUBLISHER: PHILLIPS BUSINESS INFORMATION  
LANGUAGE: ENGLISH WORD COUNT: 649 RECORD TYPE: FULLTEXT

(c) PHILLIPS PUBLISHING INTERNATIONAL All Rts. Reserv.

TEXT:

...Sony. The other proposal, also announced last July, comes from Macrovision, Royal Philips Electronics, and **Digimarc** (DVD Report, August 3). The two different proposals grew out of evaluations by the Data...

...invisible markings added to an image that are readable by digital video devices. A DVD **movie**, for instance, could be watermarked so that no copies at all are allowed, flagged so...

...be freely made. The watermark must endure through both digital and analog transmission of the **image**, as well as through decoding and re- **encoding** the picture. The **watermark** could still be read, for example, after a digital source had been copied to analog...  
?